```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1            Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2            "Ask CAS" for self-help around the clock
 NEWS  3   SEP 09   CA/CAplus records now contain indexing from 1907 to the
                    present
 NEWS  4   Jul 15   Data from 1960-1976 added to RDISCLOSURE
 NEWS  5   Jul 21   Identification of STN records implemented
 NEWS  6   Jul 21   Polymer class term count added to REGISTRY
 NEWS  7   Jul 22   INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
                    Right Truncation available
 NEWS  8   AUG 05   New pricing for EUROPATFULL and PCTFULL effective
                    August 1, 2003
 NEWS  9   AUG 13   Field Availability (/FA) field enhanced in BEILSTEIN
 NEWS 10   AUG 15   PATDPAFULL: one FREE connect hour, per account, in
                    September 2003
 NEWS 11   AUG 15   PCTGEN: one FREE connect hour, per account, in
                    September 2003
 NEWS 12   AUG 15   RDISCLOSURE: one FREE connect hour, per account, in
                    September 2003
 NEWS 13   AUG 15   TEMA: one FREE connect hour, per account, in
                    September 2003
 NEWS 14   AUG 18   Data available for download as a PDF in RDISCLOSURE
 NEWS 15   AUG 18   Simultaneous left and right truncation added to PASCAL
 NEWS 16   AUG 18   FROSTI and KOSMET enhanced with Simultaneous Left and Righ
                    Truncation
 NEWS 17   AUG 18   Simultaneous left and right truncation added to ANABSTR
 NEWS 18   SEP 22   DIPPR file reloaded
 NEWS 19   SEP 25   INPADOC: Legal Status data to be reloaded
 NEWS 20   SEP 29   DISSABS now available on STN

 NEWS EXPRESS  OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:50:42 ON 01 OCT 2003

=> g
G IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> file reg
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:50:49 ON 01 OCT 2003
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STRUCTURE FILE UPDATES: 30 SEP 2003 HIGHEST RN 596082-96-1
DICTIONARY FILE UPDATES: 30 SEP 2003 HIGHEST RN 596082-96-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
L1 STRUCTURE UPLOADED

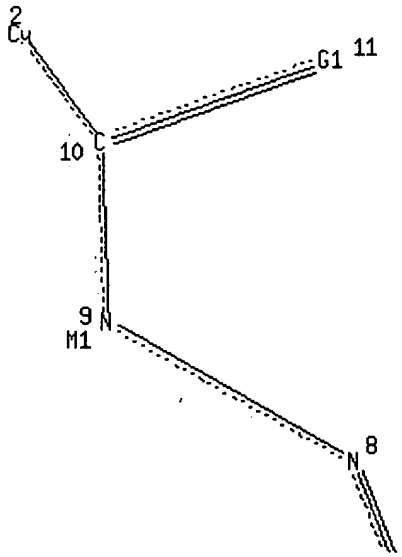
=> d l1
L1 HAS NO ANSWERS
L1 STR

16 O M1 H 17

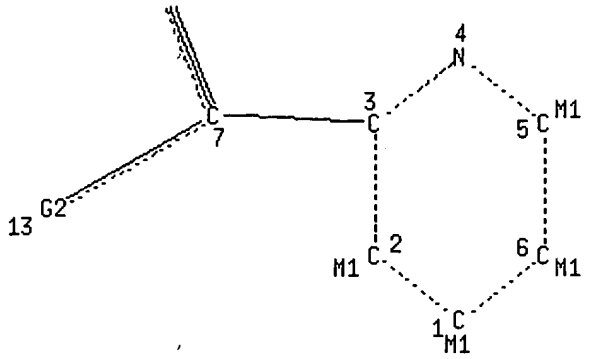
O 14 S 15

1

Page 1-A



Page 1-B



Page 2-B
VAR G1=14/15
VAR G2=16/17
NODE ATTRIBUTES:
HCOUNT IS M1 AT 1
HCOUNT IS M1 AT 2
HCOUNT IS M1 AT 5
HCOUNT IS M1 AT 6
HCOUNT IS M1 AT 9
HCOUNT IS M1 AT 16
NSPEC IS R AT 1
NSPEC IS R AT 2
NSPEC IS R AT 3
NSPEC IS R AT 4
NSPEC IS R AT 5
NSPEC IS R AT 6
NSPEC IS C AT 7
NSPEC IS C AT 8
NSPEC IS C AT 9
NSPEC IS C AT 10
NSPEC IS C AT 11
NSPEC IS C AT 12
NSPEC IS C AT 13
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 7 8 9 10 14 15 16 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE

=> **s l1**
SAMPLE SEARCH INITIATED 16:53:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 473 TO ITERATE

100.0% PROCESSED 473 ITERATIONS 24 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8156 TO 10764
PROJECTED ANSWERS: 187 TO 773

L2 24 SEA SSS SAM L1

```
=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:53:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   9799 TO ITERATE

100.0% PROCESSED    9799 ITERATIONS                          631 ANSWERS
SEARCH TIME: 00.00.01

L3          631 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   149.75     149.96

FILE 'HCAPLUS' ENTERED AT 16:53:49 ON 01 OCT 2003
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FILE COVERS 1907 - 1 Oct 2003  VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003  (20030930/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l3
L4          163 L3

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     2.25     152.21

FILE 'REGISTRY' ENTERED AT 16:54:07 ON 01 OCT 2003
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STRUCTURE FILE UPDATES:   30 SEP 2003  HIGHEST RN 596082-96-1
DICTIONARY FILE UPDATES:  30 SEP 2003  HIGHEST RN 596082-96-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003
```

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

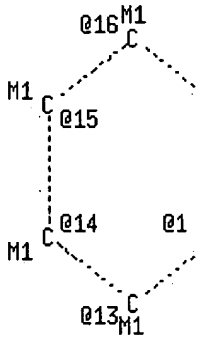
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
L5 STRUCTURE UPLOADED

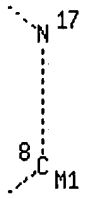
=> d 15
L5 HAS NO ANSWERS
L5 STR

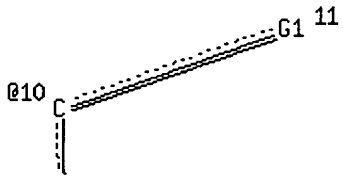
21 0 M1 H 22

0 19 S 20

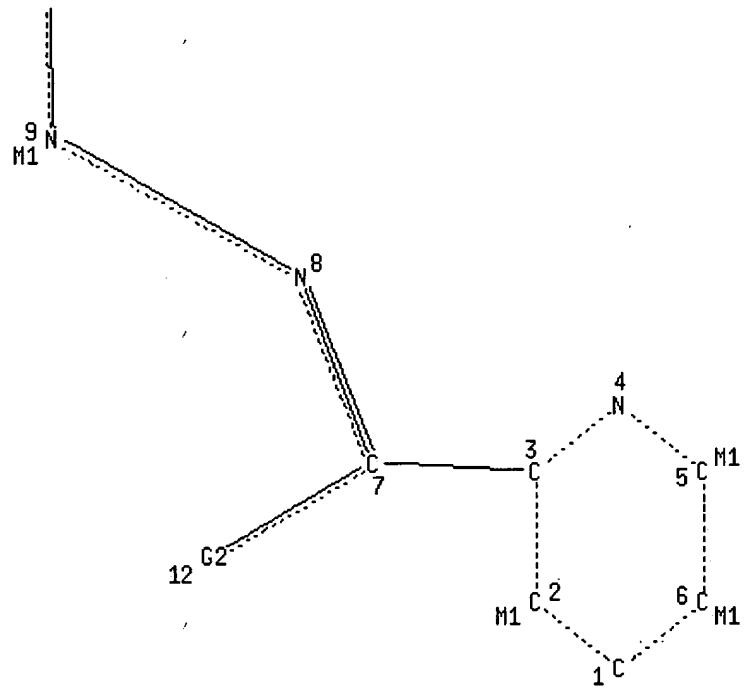


Page 1-A





Page 1-B



Page 2-B

M1

Page 3-B

VAR G1=19/20

VAR G2=21/22

VPA 10-13/14/15/16/18 S

NODE ATTRIBUTES:

HCOUNT	IS M1	AT	1
HCOUNT	IS M1	AT	2
HCOUNT	IS M1	AT	5
HCOUNT	IS M1	AT	6
HCOUNT	IS M1	AT	9
HCOUNT	IS M1	AT	13
HCOUNT	IS M1	AT	14
HCOUNT	IS M1	AT	15
HCOUNT	IS M1	AT	16
HCOUNT	IS M1	AT	18
HCOUNT	IS M1	AT	21
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS C	AT	12
NSPEC	IS R	AT	13
NSPEC	IS R	AT	14
NSPEC	IS R	AT	15
NSPEC	IS R	AT	16
NSPEC	IS R	AT	17
NSPEC	IS R	AT	18

```
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   7  8  9 10 13 19 20 21 22
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  22

STEREO ATTRIBUTES: NONE


=> s l5
SAMPLE SEARCH INITIATED 16:56:14 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    132 TO ITERATE

100.0% PROCESSED     132 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1951 TO     3329
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

=> s l5 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 147.75 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:56:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   2781 TO ITERATE

100.0% PROCESSED    2781 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

L7             0 SEA SSS FUL L5

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               149.35     301.56

FILE 'HCAPLUS' ENTERED AT 16:56:39 ON 01 OCT 2003
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FILE COVERS 1907 - 1 Oct 2003  VOL 139 ISS 14
FILE LAST UPDATED: 30 Sep 2003  (20030930/ED)
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> d his

     (FILE 'HOME' ENTERED AT 16:50:42 ON 01 OCT 2003)

     FILE 'REGISTRY' ENTERED AT 16:50:49 ON 01 OCT 2003
L1             STRUCTURE UPLOADED
L2          24 S L1
L3         631 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 16:53:49 ON 01 OCT 2003
L4         163 S L3

     FILE 'REGISTRY' ENTERED AT 16:54:07 ON 01 OCT 2003
L5             STRUCTURE UPLOADED
L6           0 S L5
L7           0 S L5 FULL

     FILE 'HCAPLUS' ENTERED AT 16:56:39 ON 01 OCT 2003

=> s l4 and pd < october 1999
      19676477 PD < OCTOBER 1999
                 (PD<19991000)
L8         124 L4 AND PD < OCTOBER 1999

=> s l8, ibib abs fhitstr, 1-124
           723 'L8'
            14 IBIB
        209181 ABS
             5 ABSES
        209186 ABS
                 (ABS OR ABSES)
             0 FHITSTR
       7685990 1
         41062 124
L9           0 L8, IBIB ABS FHITSTR, 1-124
                 ('L8'(W)IBIB(W)ABS(W)FHITSTR(W)1(W)124)

=> d l8, ibib abs fhitstr, 1-124

L8   ANSWER 1 OF 124  HCAPLUS  COPYRIGHT 2003 ACS on STN
```

Full Text | Citing References

```
ACCESSION NUMBER:         2000:269511  HCAPLUS
DOCUMENT NUMBER:          133:26052
TITLE:                    Synthesis, structure and properties of manganese(II)
                          complexes with aroylhydrazones of 2-pyridine-
                          carboxaldehyde
AUTHOR(S):                Choudhury, Amitava; Geetha, Banda; Sangeetha, Nimma
                          Rajaiah; Kavita, Vanaparthi; Susila, Vishnubhatla;
                          Pal, Samudranil
CORPORATE SOURCE:         School of Chemistry, University of Hyderabad,
                          Hyderabad, 500 046, India
SOURCE:                   Journal of Coordination Chemistry (1999), 48(1), 87-95
                          CODEN: JCCMBQ; ISSN: 0095-8972
PUBLISHER:                Gordon & Breach Science Publishers
DOCUMENT TYPE:            Journal
```

LANGUAGE: English

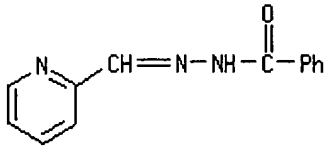
AB Mn(II) complexes of terdentate N,N,O donor Schiff bases (HL) are described. The ligands Hpabh, Hpamh and Hpadh were obtained by condensing 2-pyridine-carboxaldehyde with benzhydrazide, 4-methoxybenzhydrazide and 4-dimethylaminobenzhydrazide, resp. The reaction of HL with Mn(II) acetate tetrahydrate affords [MnL2]. The crystal structure detn. of [Mn(pabh)2] was performed. The complex crystallizes in the space group P21/n with a 9.836(3), b 23.994(7), c 10.222(3) Å, β 104.14(3)° and Z = 4. In the distorted octahedral MnN4O2 coordination sphere each ligand acts as a meridional N,N,O donor using pyridine-N, imine-N and amide-O atoms. Electronic spectra of the complexes display charge transfer bands in the range 404-298 nm. Room temp. solid state magnetic moments (5.88-6.12 μB) of the complexes are consistent with a high-spin d5 system. EPR spectra of the complexes suggest a similar distorted octahedral N4O2 coordination sphere around Mn(II) in each complex.

IT **1215-55-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(for prepn. of manganese pyridinecarboxaldehyde aroylhydrazone complexes)

RN 1215-55-0 HCAPLUS

CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2000:72793 HCAPLUS

DOCUMENT NUMBER: 132:202643

TITLE: Cytotoxicity of salicylaldehyde benzoylhydrazone analogs and their transition metal complexes: quantitative structure-activity relationships

AUTHOR(S): Ainscough, Eric W.; Brodie, Andrew M.; Denny, William A.; Finlay, Graeme J.; Gothe, Scott A.; Ranford, John D.

CORPORATE SOURCE: Department of Chemistry, Institute of Fundamental Sciences, Massey University, Palmerston North, N. Z.

SOURCE: Journal of Inorganic Biochemistry (**1999**), 77(3-4), 125-133
CODEN: JIBIDJ; ISSN: 0162-0134

PUBLISHER: Elsevier Science Inc.

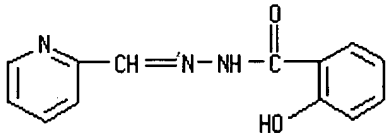
DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of salicylaldehyde benzoylhydrazone derivs., their copper(II) complexes and a range of transition metal complexes of the unsubstituted ligand has been synthesized and evaluated for cytotoxicity against a human adenocarcinoma cell line. A QSAR anal. revealed ligand cytotoxicity is strongly correlated with electronic and transport factors and can be modeled by treating each "half" of the mol. as an isolated unit. Activity increases when substituents in the benzoyl ring were electron withdrawing

whereas, for the salicylaldehyde ring, electron donation was required. The cytotoxicity of the Cu(II) complexes was greater than, and paralleled the ligands. Activity for the transition metal complexes of the unsubstituted ligand mirrored charge d. on the metal.

IT **18176-38-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(QSAR anal of salicylaldehyde benzoylhydrazone analogs and their transition metal complexes)
RN 18176-38-0 HCAPLUS
CN Benzoic acid, 2-hydroxy-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

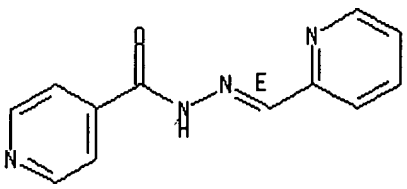
Full Text | Citing References

ACCESSION NUMBER: 2000:42711 HCAPLUS
DOCUMENT NUMBER: 132:144676
TITLE: The biologically active iron chelators 2-pyridylcarboxaldehyde isonicotinoylhydrazone, 2-pyridylcarboxaldehyde benzoylhydrazone monohydrate and 2-furaldehyde isonicotinoylhydrazone
AUTHOR(S): Richardson, Des R.; Becker, Erika; Bernhardt, Paul V.
CORPORATE SOURCE: Department of Medicine, Royal Brisbane Hospital, University of Queensland, Brisbane, 4029, Australia
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (**1999**), C55(12), 2102-2105
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard International Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB In the crystal structures of the resp. title compds., C12H10N4O, C13H11N3O·H2O and C11H9N3O2, variations in the torsion angles of the arom. pyridyl and benzoyl groups are obsd., and the disposition of the heterocyclic aldehyde is influenced by the ring size of this group. Crystallog. data are given.

IT **257299-41-5**
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(crystal structure of biol. active iron chelator of)
RN 257299-41-5 HCAPLUS
CN 4-Pyridinecarboxylic acid, (2E)-(2-pyridinylmethylene)hydrazide, stereoisomer (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

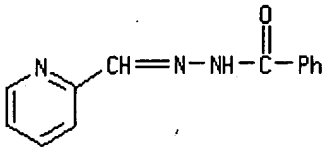
ACCESSION NUMBER: 1999:783045 HCAPLUS
DOCUMENT NUMBER: 132:246303
TITLE: Development of novel aroylhydrazone ligands for iron chelation therapy: 2-pyridylcarboxaldehyde isonicotinoyl hydrazone analogs
AUTHOR(S): Becker, Erika; Richardson, Des R.
CORPORATE SOURCE: Department of Medicine, Royal Brisbane Hospital, University of Queensland, Brisbane, Australia
SOURCE: Journal of Laboratory and Clinical Medicine (**1999**), 134(5), 510-521
CODEN: JLCMAK; ISSN: 0022-2143
PUBLISHER: Mosby, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Previous studies have demonstrated that aroylhydrazone iron (Fe) chelators of the pyridoxal isonicotinoyl hydrazone (PIH) class have high Fe chelation efficacy both in vitro and in vivo. Depending on their design, these drugs may have potential as agents for the treatment of Fe overload disease or cancer. Considering the high potential of this class of ligands, we have synthesized seven novel aroylhydrazones in an attempt to identify Fe chelators more efficient than desferrioxamine (DFO) and more sol. than those of the PIH class. These compds. belong to a new series of tridentate chelators known as the 2-pyridylcarboxaldehyde isonicotinoyl hydrazones (PCIH). In this study we have examd. the Fe chelation efficacy and antiproliferative activity of these chelators including their effects on the expression of genes (WAF1 and GADD45) known to be important in mediating cell cycle arrest at G1/S. From seven chelators synthesized, three ligands, namely 2-pyridylcarboxaldehyde benzoyl hydrazone (PCBH), 2-pyridylcarboxaldehyde m-bromobenzoyl hydrazone (PCBBH), and 2-pyridylcarboxaldehyde 2-thiophenecarboxyl hydrazone (PCTH), showed greater Fe chelation activity than DFO and comparable or greater efficiency than PIH. These ligands were highly effective at both mobilizing 59Fe from cells and preventing 59Fe uptake from 59Fe-transferrin and caused a marked increase in the RNA-binding activity of the iron-regulatory proteins (IRP). Our studies have also demonstrated that compared with the cytotoxic Fe chelator, 2-hydroxy-1-naphthylaldehyde isonicotinoyl hydrazone (311), these ligands have far less effect on cellular growth and 3H-thymidine, 3H-leucine, or 3H-uridine incorporation. In addn., in contrast to 311, which markedly increased WAF1 and GADD45 mRNA expression, PCBH and PCTH did not have any effect, whereas PCBBH increased the expression of GADD45 mRNA. Collectively, these results demonstrate the potential of several of these ligands as agents for the management of Fe overload disease.

IT **1215-55-0**

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

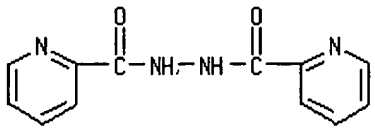
(iron chelation by 2-pyridylcarboxaldehyde isonicotinoyl hydrazone analogs)
RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 1999:778596 HCAPLUS
DOCUMENT NUMBER: 132:100706
TITLE: N,N'-bis(picolinoyl)hydrazine
AUTHOR(S): Shao, Sichang; Zhu, Dunru; Song, You; You, Xiao Zeng; Raj, S. Shanmuga Sundara; Fun, Hoong-Kun
CORPORATE SOURCE: Coordination Chemistry Institute & State Key Laboratory of Coordination Chemistry, Nanjing University, Nanjing, 210093, Peop. Rep. China
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1999), C55(11), 1841-1843
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard International Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Crystals of the title compd. are monoclinic, space group C2/c, with a 13.4224(1), b 11.1181(1), c 7.5341(6) Å, β 97.761(3)°; Z = 4, dc = 1.444; R = 0.052, Rw(F2) = 0.146 for 1375 reflections. It is nonplanar and twisted as butterfly wings. The two carbonyl bonds are located in an s-syn conformation relative to the N-N bond, through which there is a crystallog. 2-fold axis. The mols. are packed in chains running along the c axis.
IT 840-79-9, N,N'-Bis(picolinoyl)hydrazine
RL: PRP (Properties)
(crystal structure of)
RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

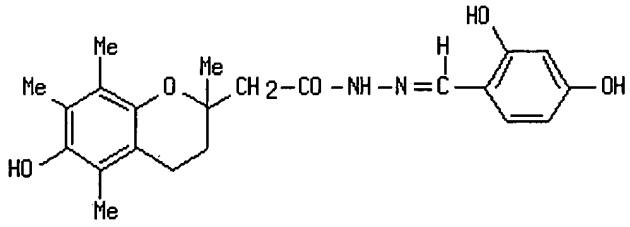
L8 ANSWER 6 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 1999:253739 HCAPLUS
DOCUMENT NUMBER: 130:325088
TITLE: Preparation of acylhydrazone derivatives as Maillard

reaction inhibitors and active oxygen scavengers
INVENTOR(S): Inoue, Hitoshi; Horigome, Masato; Kinoshita, Nobuhiro; Shibayama, Toshie
PATENT ASSIGNEE(S): Nisshin Flour Milling Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 80 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11106371	A2	19990420	JP 1998-177222	19980624 <--

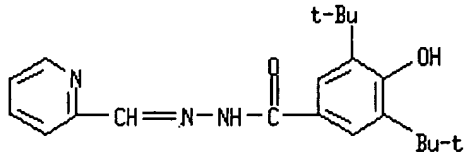
PRIORITY APPLN. INFO.: JP 1997-179754 19970704
OTHER SOURCE(S): MARPAT 130:325088
GI



I

AB The title compds. XWY [X = benzene ring, chroman ring, etc.; Y = (un)substituted Ph, etc.; W = CONHN:CH, etc.] are prepd. The title compd. I in vitro showed IC50 of 4.2 μM against the Maillard reaction.

IT **223722-10-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of acylhydrazone derivs. as Maillard reaction inhibitors and active oxygen scavengers)
RN 223722-10-9 HCAPLUS
CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 7 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:719299 HCAPLUS
DOCUMENT NUMBER: 130:1842
TITLE: Method for the preparation of facial metal tricarbonyl compounds and their use in the labeling of biologically active substrates
INVENTOR(S): Alberto, Roger; Schibli, Roger; Egli, Andre
PATENT ASSIGNEE(S): Mallinckrodt Medical, Inc., USA
SOURCE: PCT Int. Appl., 26 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

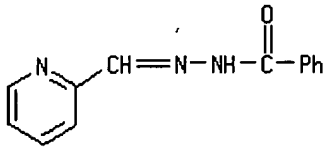
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9848848	A1	19981105	WO 1998-US7979	19980421	<--
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
EP 879606	A1	19981125	EP 1997-201232	19970425	<--
R: CH, LI, NL					
AU 9871413	A1	19981124	AU 1998-71413	19980421	<--
AU 748213	B2	20020530			
BR 9809409	A	20000613	BR 1998-9409	19980421	
EP 1019095	A1	20000719	EP 1998-918501	19980421	
EP 1019095	B1	20020116			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI					
NZ 337303	A	20001222	NZ 1998-337303	19980421	
AT 211924	E	20020215	AT 1998-918501	19980421	
ES 2168751	T3	20020616	ES 1998-918501	19980421	
NO 9905160	A	19991213	NO 1999-5160	19991022	
US 6344178	B1	20020205	US 1999-403704	19991022	

PRIORITY APPLN. INFO.:
EP 1997-201232 A 19970425
WO 1998-US7979 W 19980421

AB A method is disclosed for prepg. fac-[M(CO)3(OH2)3]+ (M = Mn, 99mTc, 186Re, 188Re) (I) by reacting a metal in the permetallate form with carbon monoxide and a reducing agent, characterized in that a mixt. of a base, a reducing agent sol. in water but not substantially decompd. by water, and optionally a stabilizing agent, is solved in a water-contg. solvent system contg. a soln. of the metal in the permanganate, pertechnetate or perrhenate form in the presence of carbon monoxide and optionally in the presence of a halide. Also disclosed are to a method of prepg. a labeled compd. with the aid of the compd. I, a method of direct prepn. of labeled compds., a method of labeling of substrates (e.g. amino acids, peptides, proteins, sugars, small receptor binding mols. and body cells) with the aid of compd. I, a kit for the prepn. of a labeling compn., and a kit for the prepn. of a diagnostic of therapeutic pharmaceutical compn.

IT **1215-55-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction; facial metal tricarbonyl compd. prepn. and use in labeling of biol. active substrates for diagnosis and therapy)

RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

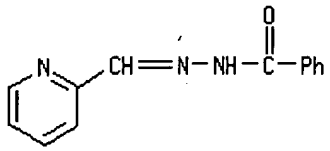
L8 ANSWER 8 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:541058 HCAPLUS
DOCUMENT NUMBER: 129:285149
TITLE: Nitrogen, sulfur and oxygen donor adducts with copper(II) complexes of antitumor 2-formylpyridinethiosemicarbazone analogs: physicochemical and cytotoxic studies
AUTHOR(S): Ainscough, Eric W.; Brodie, Andrew M.; Denny, William A.; Finlay, Graeme J.; Ranford, John D.
CORPORATE SOURCE: Chemistry - Institute of Fundamental Sciences, Massey University, N. Z.
SOURCE: Journal of Inorganic Biochemistry (**1998**), 70(3,4), 175-185
CODEN: JIBIDJ; ISSN: 0162-0134
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The prepn. of N-, S- and O-donor ligand adducts with CuX+(HX = 6-methyl-2-formylpyridinethiosemicarbazone (6HL); 2-formylpyridine-2'-methylthiosemicarbazone (2'L); 2-formylpyridine-4'-methylthiosemicarbazone (4'HL)) is described. The N-donors, 2,2'-bipyridyl (bipy), 4-dimethylaminopyridine (dmap) give [Cu(6L)(bipy)]PF6, [Cu(6L)(bipy)]Cl·5H2O, [Cu(4'L)(bipy)]PF6, [Cu(6L)(dmap)2]PF6·2.5 H2O and [Cu(4'L)(dmap)2]PF6·H2O which were characterized by phys. and spectroscopic techniques. Pentafluorothiophenolate (pftp) gives S-donor complexes [CuX(pftp)] (X = 6L and 4'L) and thiolato coordination is proposed from spectroscopic evidence. Paratritylphenolate (ptp) and HPO42- give O-donor complexes [Cu(6L)(ptp)], [Cu(4'L)(ptp)], [{Cu(6L)}2HPO4]·4H2O, and [{Cu(4'L)}2HPO4]·5H2O which were characterized by phys. and spectroscopic techniques, as have the precursor complexes [Cu(6L)(CH3COO)]·H2O, [Cu(4'L)(CH3COO)], [Cu(6HL)(CF3COO)](CF3COO)·0.5H2O, [Cu(4'HL)(CF3COO)](CF3COO), [Cu(2'L)Cl2] and [Cu(2'L)(NO3)2]. Protonation consts. for the ligands and some of their complexes were detd. 2-Formylpyridinethiosemicarbazone (HL) complexes of Ag, Au, Zn, Hg, Cd and Pb are discussed and cytotoxicity against the human tumor cell line HCT-8 and antiviral data for selected compds. are presented.

IT 1215-55-0, 2-Formylpyridine benzoylhydrazone
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antitumor activity)
RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

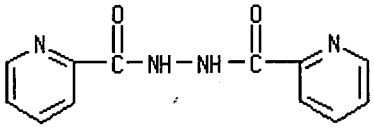
ACCESSION NUMBER: 1998:451680 HCAPLUS

DOCUMENT NUMBER: 129:74267
TITLE: 4-(p-Bromophenyl)-3,5-bis(2-pyridyl)-4H-1,2,4-triazole
AUTHOR(S): Chen, Wei; Wang, Z. X.; Jian, F. F.; Bai, Z. P.; You, X. Z.
CORPORATE SOURCE: Dep. Chem., Univ. Malaya, Kuala Lumpur, 50603, Malay.
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (**1998**), C54(6), 851-852
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard International Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The mol. of the title compd., C18H12BrN5, is basically planar except that the Ph and pyridyl rings are titled in a propeller manner with respect to the central five-membered 1,2,4-triazole ring. Crystallog. data are given.

IT **840-79-9**, N,N'-Dipyridoylhydrazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of dibromophenylphosphazoanilide in dichlorobenzene with)

RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

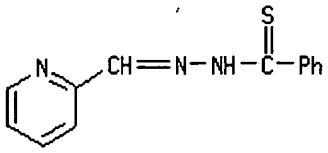
ACCESSION NUMBER: 1998:400743 HCAPLUS
DOCUMENT NUMBER: 129:130483
TITLE: Synthetic and spectroscopic studies of cobalt(II), nickel(II), copper(II) and zinc(II) complexes of pyridine-2-carboxaldehyde thiobenzoylhydrazone
AUTHOR(S): Singh, N. K.; Agrawal, Namita Rani
CORPORATE SOURCE: Department of Chemistry, Banaras Hindu University, Varanasi, 221 005, India
SOURCE: Indian Journal of Chemistry, Section A: Inorganic, Bio-inorganic, Physical, Theoretical & Analytical Chemistry (**1998**), 37A(3), 276-279
CODEN: ICACEC; ISSN: 0376-4710
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Pyridine-2-carboxaldehyde thiobenzoylhydrazone (2-PTBH) forms 1:1 adducts with Cu(II) chloride and bromide and 1:2 adducts as well as deprotonated complexes with Cu(II), Ni(II), Co(II) and Zn(II). Magnetic, electronic and ESR spectral studies suggest high-spin octahedral geometry for all the Ni(II) and Co(II) complexes and distorted octahedral geometry for Cu(II) complexes.

IT **26169-15-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(for prepn. of transition metal pyridinecarboxaldehyde thiobenzoylhydrazone complexes)

RN 26169-15-3 HCAPLUS

CN Benzenecarbothioic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

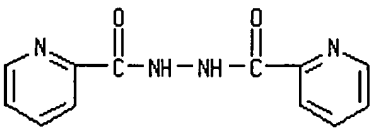
Full Text | Citing References

ACCESSION NUMBER: 1998:222310 HCAPLUS
DOCUMENT NUMBER: 128:237485
TITLE: 3,5-Bis(2-pyridiyl)-4-p-chlorophenyl-4H-1,2,4-triazole
AUTHOR(S): Wang, Zuoxiang; Bai, Zhiping; Yang, Jiaxiang; Okamoto, Ken-ichi; You, Xiaozeng
CORPORATE SOURCE: Coordination Chem. Inst. & State Key Lab. Coordination Chem., Nanjing Univ., Nanjing, 210093, Peop. Rep. China
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (**1998**), C54(3), 438-439
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard International Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The title compd., C18H12ClN5, was prepd. by the reaction of 4,4'-dichlorophenylphosphazoanilide and N,N'-dipyridoylhydrazine. Crystallog. data are given. The x-ray anal. revealed that the pyridyl groups, the substituted benzene ring and the 1,2,4-triazole ring to not share a common plane.

IT **840-79-9**
RL: PRP (Properties)
(reaction of dichlorophenylphosphazoanilide and dipyridoylhydrazine in dichlorobenzene)

RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

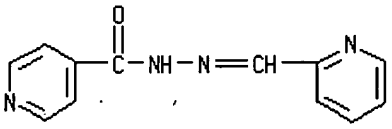
ACCESSION NUMBER: 1997:797361 HCAPLUS
DOCUMENT NUMBER: 128:61581
TITLE: Synthesis and spectroscopic investigations of organotin(IV) complexes of hydrazones derived from heterocyclic aldehydes
AUTHOR(S): Singh, Kiran; Dubey, S. N.; Singh, D. P.

CORPORATE SOURCE: Dep. Chem., Kurukshetra Univ., Kurukshetra, 136 119, India
SOURCE: Proceedings of the National Academy of Sciences, India, Section A: Physical Sciences (**1997**), 67(1), 35-38
CODEN: PAIAA3; ISSN: 0369-8203
PUBLISHER: National Academy of Sciences, India
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Some new organotin(IV) complexes were synthesized with biol.-active Schiff bases derived from the condensation of isonicotinic acid hydrazide and some heterocyclic aldehydes like furfural, 2-thiophenecarboxaldehyde, 2-pyridinecarboxaldehyde and 3-indolecarboxaldehyde. The Schiff bases function as monobasic bidentate ligands. The resulting Me2SnClL and Me2SnL2 complexes probably have trigonal bipyramidal and octahedral geometries, resp.

IT **15017-32-0P**, 2-Pyridinecarboxaldehyde isonicotinoyl hydrazone
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of organotin(IV) complexes of hydrazones derived from heterocyclic aldehydes)

RN 15017-32-0 HCAPLUS
CN 4-Pyridinecarboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

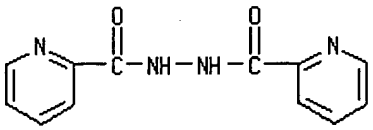
Full Text | Citing References

ACCESSION NUMBER: 1997:723381 HCAPLUS
DOCUMENT NUMBER: 128:13185
TITLE: Some oxidation reactions of isomeric pyridinecarboxylic acid hydrazides
AUTHOR(S): Iqbal, Rashid; Ebrahim, Samia; Ziaulhaq, Muhammad
CORPORATE SOURCE: Department of Chemistry, Quaid-i-Azam University, Islamabad, Pak.
SOURCE: Turkish Journal of Chemistry (**1997**), 21(3), 200-208
CODEN: TJCHE3; ISSN: 1300-0527
PUBLISHER: Scientific and Technical Research Council of Turkey
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 128:13185

AB The oxidn. reactions of the three isomeric pyridinecarboxylic acid hydrazides, 2-, 3-, and 4-pyridinecarboxylic acid hydrazide, were studied using sodium metaperiodate, silver(I) oxide and potassium ferricyanide sep. Potassium ferricyanide emerged as an excellent reagent for prepn. of 2-pyridinecarboxaldehyde and 3-pyridinecarboxaldehyde from the resp. isomeric pyridinecarboxylic acid hydrazides. Oxidn. with silver(I) oxide in each case yielded the corresponding 1,2-dipyridoylhydrazine, while sodium metaperiodate furnished different products with each isomeric pyridinecarboxylic acid hydrazide.

IT **840-79-9P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(oxidn. of pyridinecarboxylic acid hydrazides)
RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1997:216188 HCAPLUS
DOCUMENT NUMBER: 126:263678
TITLE: Pentafluorophenyl ester activation for the preparation of N,N'-diaroylhydrazines
AUTHOR(S): Zhao, He; Burke, Terrence R., Jr.
CORPORATE SOURCE: Lab. Medicinal Chem., National Inst. Health, Bethesda, MD, 20892, USA
SOURCE: Tetrahedron (**1997**), 53(12), 4219-4230
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:263678
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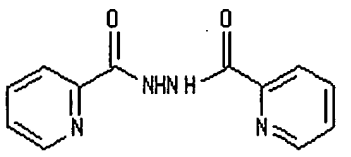

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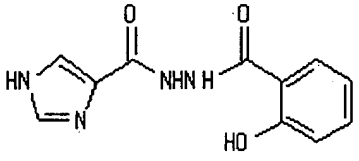
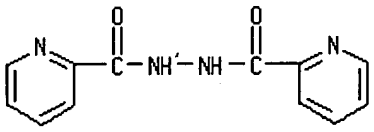


II

AB Procedures are reported for the prepn. of N,N'-diaroylhydrazines, e.g., I and II, using pentafluorophenyl (Pfp) ester activation of aryl carboxylic acids. Mild conditions which avoid intermediate protection of ring substituents, allows the synthesis of both sym. and unsym. diaroylhydrazines in high yields. The recent discovery of potent HIV-1 integrase inhibition by N,N'-bis-salicylhydrazine highlights the potential importance of this class of compds. The stability of pre-activated Pfp ester intermediates and the facility with which N,N'-diaroylhydrazines can be synthesized using this procedure (stirring at room temp. in DMF) may make the method particularly attractive for synthesis of hydrazide libraries.

IT **840-79-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of diaroylhydrazines via pentafluorophenyl esters)
RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 15 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

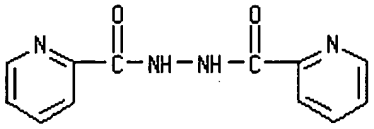
Full Text | Citing References

ACCESSION NUMBER: 1997:186969 HCAPLUS
DOCUMENT NUMBER: 126:194859
TITLE: Hydrazide-Containing Inhibitors of HIV-1 Integrase
AUTHOR(S): Zhao, He; Neamati, Nouri; Sunder, Sanjay; Hong, Huixiao; Wang, Shaomeng; Milne, George W. A.; Pommier, Yves; Burke, Terrence R. Jr.
CORPORATE SOURCE: Laboratories of Medicinal Chemistry and Molecular Pharmacology, National Cancer Institute, Bethesda, MD, 20892, USA
SOURCE: Journal of Medicinal Chemistry (**1997**), 40(6), 937-941
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Inhibitors of HIV integrase are currently being sought as potential new therapeutics for the treatment of AIDS. A large no. of inhibitors discovered to date contain the o-bishydroxy catechol structure. In an effort to discover structural leads for the development of new HIV integrase inhibitors which do not rely on this potentially cytotoxic catechol substructure, NSC 310217 was identified using a 3-point pharmacophore search based on its assigned structure N-(2-hydroxybenzoyl)-N-(2-hydroxy-3-phenoxypropyl)hydrazine (I). When a sample NSC 310217 was obtained from the NCI repository, it was shown to exhibit potent inhibition of HIV-1 integrase (3'-processing IC50 = 0.6 μg/mL). In the study reported, the authors demonstrated that NSC 310217, rather than contg. I, which has no inhibitory potency against HIV-1 integrase, is comprised of roughly a 1:1 mixt. of N-(2-hydroxybenzoyl)-N'-(2-hydroxy-3-phenoxypropyl)hydrazine and N,N'-bis-salicylhydrazine (II), with all inhibitory potency residing with II (IC50 = 0.7 μM for strand transfer). In subsequent structure-activity studies on II, it was shown that removing a single amide carbonyl which gave N-(2-hydroxybenzyl)-N'-salicylhydrazine (III) (IC50 = 5.2 μM), or replacing 1 arom. ring system with a naphthyl ring (IC50 = 1.1 μM) was accomplished with little loss of inhibitory potency. Addnl., replacing a single hydroxyl with a sulfhydryl (IC50 = 5.8 μM) resulted in only moderate loss of potency. All other modifications examd., including the replacement of a single hydroxyl with an amino group, resulted in complete loss of potency. Being potent, structurally simple, and non-catechol-contg., II and III may provide useful leads for the development of a new class of HIV integrase inhibitor.

IT **840-79-9**,
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(prepn. of hydrazide-contg. inhibitors of HIV-1 integrase)

RN 840-79-9 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(2-pyridinylcarbonyl)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 16 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

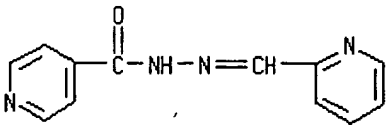
Full Text | Citing References

ACCESSION NUMBER: 1997:61310 HCAPLUS
DOCUMENT NUMBER: 126:168980
TITLE: Antitubercular activity of isonicotinoylhydrazone α-pyridinaldehyde and coordination compounds of manganese(II), cobalt(II), nickel(II), copper(II), zinc, and cadmium based on it
AUTHOR(S): Tsintsadze, M. G.; Narimanidze, A. P.; Shilakadze, E. M.; Napetvaridze, L. D.; Tsintsadze, T. G.; Chanturiya, M. M.; Kipiani, T. I.
CORPORATE SOURCE: Gruz. Tekh. Univ., Georgia
SOURCE: Soobshcheniya Akademii Nauk Gruzii (**1995**), 151(2), 287-289
CODEN: SANGEF
PUBLISHER: Nauka
DOCUMENT TYPE: Journal
LANGUAGE: Russian

AB Antitubercular activity of isonicotinoylhydrazone α-pyridine aldehyde and coordination compds. of manganese (II), cobalt (II), nickel (II), copper (II), zinc, and cadmium prepd. on its base have been studied in vitro. It is shown that compared with the well-known antitubercular prepn. - isonicotine hydrazide (tubazide), the manganic (II) chloride and nickelous (II) sulfate complexed are the most active.

IT **15017-32-0**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antitubercular activity of isonicotinoylhydrazone α-pyridinaldehyde and coordination compds. of manganese(II), cobalt(II), nickel(II), copper(II), zinc, and cadmium based on it)

RN 15017-32-0 HCAPLUS
CN 4-Pyridinecarboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)

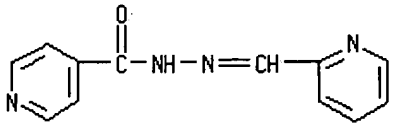


L8 ANSWER 17 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

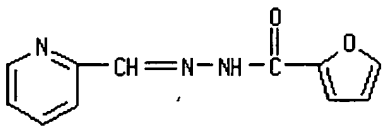
Full Text | Citing References

ACCESSION NUMBER: 1996:597832 HCAPLUS
DOCUMENT NUMBER: 125:264314
TITLE: Methods of isonicotinic acid hydrazide hydrazones coordination with metals
AUTHOR(S): Tsintsadze, M.
CORPORATE SOURCE: Georgia
SOURCE: Soobshcheniya Akademii Nauk Gruzii (**1994**), 150(1), 76-79

CODEN: SANGEF
PUBLISHER: Metsniereba
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Mn, Co, Ni, Cu, Zn and Cd halides, nitrates, sulfates and thiocyanates complexes with RCONHN:CHR1 (R = 4-pyridyl; R1 = Ph, 2-C6H4OH, 2-pyridyl, 4-pyridyl, 4-2NC6H4, 4-AcC6H4) were prepd.
IT **15017-32-0D**, transition metal complexes
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of)
RN 15017-32-0 HCAPLUS
CN 4-Pyridinecarboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 18 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References
ACCESSION NUMBER: 1996:407478 HCAPLUS
DOCUMENT NUMBER: 125:157099
TITLE: Pyridine-2-aldehyde-2-furoylhydrazone - a new visualization reagent for cation separation by TLC
AUTHOR(S): Marutoiu, Constantin; Coman, Virginia; Luta, Nicolae; Semeniuc, Radu
CORPORATE SOURCE: Inst. Chem. "Raluca Ripan", Cluj-Napoca, RO-3400, Rom.
SOURCE: Journal of Planar Chromatography--Modern TLC (**1996**), 9(3), 212-214
CODEN: JPCTE5; ISSN: 0933-4173
PUBLISHER: Research Institute for Medicinal Plants
DOCUMENT TYPE: Journal
LANGUAGE: English
AB This paper presents results obtained from the sepn. of a mixt. of twelve toxic cations on cellulose DEAE - silica gel R (1 + 1, wt./wt.) layers using iso-PrOH - EtOH - 5 N HCl (5 + 5 + 1, vol./vol.) as mobile phase. Detection was performed with 0.1% alc. pyridine-2-aldehyde-2-furoylhydrazone soln. and 0.1% alc. rubeanic acid soln.
IT **88053-38-7**
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(a visualization reagent for cation sepn. by TLC)
RN 88053-38-7 HCAPLUS
CN 2-Furancarboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



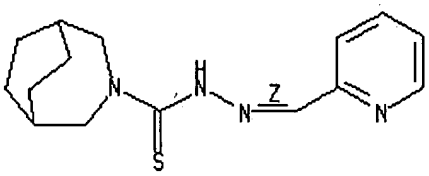
L8 ANSWER 19 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References
ACCESSION NUMBER: 1995:1001936 HCAPLUS
DOCUMENT NUMBER: 124:104669

TITLE: Structural studies of three isomeric forms of heterocyclic N(4)-substituted thiosemicarbazones and two nickel(II) complexes
AUTHOR(S): West, Douglas X.; Bain, Gordon A.; Butcher, Ray J.; Valdes-Martinex, Jesus; Toscano, Ruben A.; Hernandez-Ortega, Simon; Jasinsky, Jerry P.; Li, Yu; Pozdniakiv, Roman, Y.
CORPORATE SOURCE: Instituto de Quimica, Universidad Nacional Autonoma de Mexico, Coyoacan, 04510, Mex.
SOURCE: Polyhedron (**1996**), 15(4), 665-74
CODEN: PLYHDE; ISSN: 0277-5387
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Three structural forms were isolated among four 2-formyl- and 2-acetyl-pyridine N(4)-substituted thiosemicarbazones reported. 2-Formylpyridine N(4)-methylthiosemicarbazone and 2-acetylpyridine N(4)-ethylthiosemicarbazone both exist as nonhydrogen bonding E isomers. 2-Formylpyridine 3-azabicyclo[3.2.2]nonylthiosemicarbazone crystallizes as a H bonding Z isomer. The yellow 2-acetylpyridine 3-hexamethyleneiminethiosemicarbazone crystd. with a bifurcated H bonding arrangement in which the N(3) H is formally positioned at N(2), making it tautomeric to the other two forms. Structures of four-coordinate Ni(II) complexes contg. the monoanions of 2-formylpyridine 3-azabicyclo[3.2.2]nonylthiosemicarbazone and acetylpyrazine 3-hexamethyleneiminethiosemicarbazone are included.

IT **158201-95-7P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and crystal structure and complexation with Ni)
RN 158201-95-7 HCAPLUS
CN 3-Azabicyclo[3.2.2]nonane-3-carbothioic acid, (2-pyridinylmethylene)hydrazide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L8 ANSWER 20 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 1995:873157 HCAPLUS
DOCUMENT NUMBER: 123:334700
TITLE: Evaluation of some arylhydrazones of p-aminobenzoic acid hydrazide as antimicrobial agents and the in vitro hepatic microsomal metabolism
AUTHOR(S): Komurcu, S. G.; Rollas, S.; Ulgen, M.; Gorrod, J. W.; Cevikbas, A.
CORPORATE SOURCE: Faculty of Pharmacy, University of Marmara, Hydarpasa, 81919, Turk.
SOURCE: Bollettino Chimico Farmaceutico (**1995**), 134(7), 375-9
CODEN: BCFAAI; ISSN: 0006-6648
PUBLISHER: Societa Editoriale Farmaceutica
DOCUMENT TYPE: Journal

LANGUAGE: English

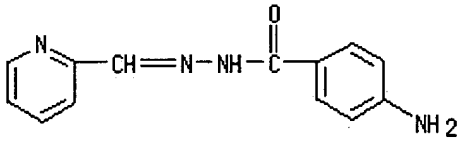
AB Benzoic acid p-amino-[(substituted phenyl/pyridyl)methylene] hydrazide derivs. were synthesized by interaction of p-aminobenzoic acid hydrazide with various arom. aldehydes. The structures of the compds. were elucidated by use of their UV, IR, 1H-NMR and mass spectral data. These compds. were also evaluated for antimicrobial activity. The in vitro hepatic microsomal metab. of benzoic acid p-amino-[(4-fluorophenyl)methylene]hydrazide, a selected prototype from these compds. was also carried out.

IT **158833-86-4P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(evaluation of arylhydrazones of p-aminobenzoic acid hydrazide as antimicrobial agents and in vitro hepatic microsomal metab.)

RN 158833-86-4 HCAPLUS

CN Benzoic acid, 4-amino-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 21 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1995:688196 HCAPLUS

DOCUMENT NUMBER: 123:357478

TITLE: Spectral studies of cobalt(III) complexes of heterocyclic 3-azacyclothiosemicarbazones and the structure of the acetylpyrazine 3-azabicyclo[3.2.2]nonylthiosemicarbazone complex

AUTHOR(S): Maichle, Cecilia; Castineiras, Alfonso; Carballo, Rosa; Gebremedhin, Haileselassie; Lockwood, Mark A.; Ooms, Christopher E.; Romack, Timothy J.; West, Douglas X.

CORPORATE SOURCE: Inst. Inorg. Chem., Univ. Tuebingen, Germany

SOURCE: Transition Metal Chemistry (London) (**1995**), 20(3), 228-33
CODEN: TMCHDN; ISSN: 0340-4285

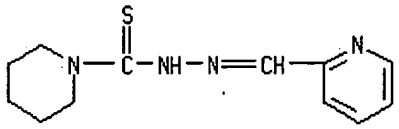
PUBLISHER: Chapman & Hall

DOCUMENT TYPE: Journal

LANGUAGE: English

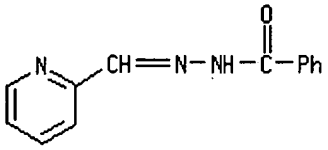
AB Cobalt(III) complexes of 2-acetylpyridine 3-pyrrolidinyl-, 3-piperidinyl-, 3-hexamethyleneiminyl-, and 3-azabicyclo[3.2.2]nonylthiosemicarbazone, [Co(Lpo)2]BF4, [Co(Lpip)2]BF4, [Co(Lhexim)2]BF4, and [Co(Lbcn)2]BF4, resp.; 2-formylpyridine 3-piperidinyl-, 3-hexamethyleneiminyl-, and 3-azabicyclo[3.2.2]nonylthiosemicarbazone, [Co(pip)2]BF4, [Co(hexim)2]BF4, and [Co(bcn)2]BF4, resp.; and acetylpyrazine 3-azabicyclo[3.2.2]nonylthiosemicarbazone, [Co(Pzbcn)2]BF4, have been synthesized and their spectral properties measured. The 1H- and 13C-NMR spectra show the uncomplexed thiosemicarbazones to be mixts. of as many as three isomers, but that the two ligands in the cobalt(III) complexes are nearly identical. The crystal structure of [Co(Pzbcn)2]BF4 shows the two ligands coordinated in a mer-configuration. Bond lengths and angles in this complex are compared with data previously reported for thiosemicarbazone complexes.

IT 16552-95-7
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(NMR and reaction with cobalt tetrafluoroborate)
RN 16552-95-7 HCAPLUS
CN 1-Piperidinecarbothioic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 22 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

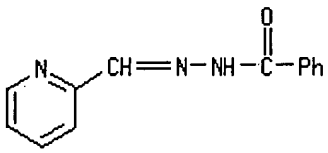
ACCESSION NUMBER: 1995:583241 HCAPLUS
DOCUMENT NUMBER: 123:245469
TITLE: Kinetic differentiation mode high-performance liquid chromatography as a powerful tool in environmental trace metal chemistry
AUTHOR(S): Hoshino, Hitoshi; Yotsuyanagi, Takao
CORPORATE SOURCE: Department Molecular Chemistry and Engineering, Tohoku University, Sendai, 980, Japan
SOURCE: Adv. Technol. I M, Conf. Proc., 10th (**1994**), Volume 1, 8-11. IEEE: New York, N. Y.
CODEN: 61IYAP
DOCUMENT TYPE: Conference
LANGUAGE: English
AB A new concept, "Kinetic Differentiation" Mode in a High-performance Liq. Chromatog. system for trace metal detn. are described. The HPLC sepn. processes give rise to the unique selectivity base on a difference in the reaction kinetics of the metal-chelate compds. The capability of this HPLC methods for environmental studies are demonstrated in terms of the high sensitivity (down to pg/mL) and the specificity for the cases of Al, Be, Ni, and V ions.
IT 1215-55-0
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(kinetic differentiation mode high-performance liq. chromatog. as a powerful tool in environmental trace metal chem.)
RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 23 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 1994:700990 HCAPLUS
DOCUMENT NUMBER: 121:300990
TITLE: Organotin(IV) complex with tridentate ligands-II. Synthesis and characterization of mono- and dimethyltin(IV) complexes with N-(2-pyridinylmethylene)benzoylhydrazine. The crystal and

molecular structure of monomethyldichloro[N-(2-pyridinylmethylene)benzoylhydrazinate NNO(-1)]tin(IV)
AUTHOR(S): Khalil, T. E.; Labib, L.; Iskander, M. F.; Refaat, L. S.
CORPORATE SOURCE: Chemistry Dep., Alexandria Univ., Alexandria, Egypt
SOURCE: Polyhedron (**1994**), 13(17), 2569-78
CODEN: PLYHDE; ISSN: 0277-5387
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two organotin(IV) complexes with N-(2-pyridinylmethylene)benzoylhydrazine (HPyBzh), SnMeCl2(PyBzh) and SnMe2Cl(PyBzh), were prepd. and characterized by mass, IR, UV-visible and NMR spectral techniques. The x-ray crystal and mol. structure of SnMeCl2(PyBzh) was detd. The PyBzh- anion in this complex acts as a monobasic NNO-tridentate ligand, the Sn(IV) lying in an elongated distorted octahedral environment where the pyridyl N, azomethine N and hydrazide O, together with the Me C, are in the equatorial plane, whereas the two chlorides are the apical ligands. The structures of these complexes in different solvents also were discussed.
IT 1215-55-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and structure of pyridinylmethylenebenzoylhydrazinate tin complexes)
RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 24 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References
ACCESSION NUMBER: 1994:670602 HCAPLUS
DOCUMENT NUMBER: 121:270602
TITLE: 2-Pyridylaldehyde benzoylhydrazone derivatives as highly selective precolumn chelating reagents for nickel(II) ion in kinetic differentiation mode high-performance liquid chromatography
AUTHOR(S): Iki, Nobuhiko; Hoshino, Hitoshi; Yotsuyanagi, Takao
CORPORATE SOURCE: Dep. Mol. Chem. Eng., Tohoku Univ., Sendai, 980, Japan
SOURCE: Mikrochimica Acta (**1994**), 113(3-6), 137-52
CODEN: MIACAQ; ISSN: 0026-3672
DOCUMENT TYPE: Journal
LANGUAGE: English
AB 2-Pyridylaldehyde aroylhydrazones were examd. as reagents for precolumn derivatization of metal ions in the HPLC-spectrophotometry system. With the simplest analog, 2-pyridylaldehyde benzoylhydrazone (PAB), among 11 metal ions only Ni(II) ion gives the peak while the other metal chelates seem to be dissocd. on an HPLC column where no added PAB is present in the eluent solns. All other PAB analogs exhibit the peak for Ni(II) ion as well as Co(III) ion. In 1 reagent system, V(V) and Fe(II) chelates also appear in the chromatograms. It was stressed that the selectivity principle is the kinetic differentiation (KD) towards metal chelates assocd. with the HPLC processes. The specificity for Ni(II) ion is in close relation to a key structure of the ligand mols. which provides an N,N,O coplanar coordination environment to form 2 5-membered chelate rings. An extremely selective and sensitive KD-HPLC method for the

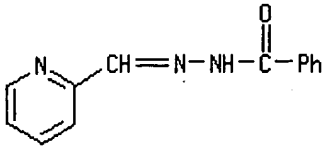
quantitation of Ni(II) ion at the ultra-trace levels was assessed; the detection limit (3 σBlank) for Ni(II) ion was down to 5.34 × 10-9 mol L-1 (31.5 pg in a 100 μL injection) and the excellent applicability was checked using coal fly ash samples.

IT **1215-55-0**

RL: ANST (Analytical study)
(as precolumn derivatization reagent for nickel detn. by kinetic differentiation mode HPLC)

RN 1215-55-0 HCAPLUS

CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 25 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1994:644244 HCAPLUS

DOCUMENT NUMBER: 121:244244

TITLE: Copper(II) and nickel(II) complexes of 2-formylpyridine 3-piperidinyl-, 3-hexamethyleneiminyl- and 3-azabicyclo[3.2.2]nonylthiosemicarbazones

AUTHOR(S): West, Douglas X.; Ooms, Christopher E.; Saleda, Jill S.; Gebremedhin, H.; Liberta, Anthony E.

CORPORATE SOURCE: Department Chemistry, Illinois State University, Normal, IL, 61761, USA

SOURCE: Transition Metal Chemistry (Dordrecht, Netherlands) (**1994**), 19(5), 553-8
CODEN: TMCHDN; ISSN: 0340-4285

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Copper(II) and nickel(II) complexes of 2-formylpyridine 3-piperidinyl-, 3-hexamethyleneiminyl- and 3-azabicyclo[3.2.2]nonylthiosemicarbazones were prepd. and characterized spectroscopically. 1H and 13C NMR spectra of the thiosemicarbazones and a diamagnetic nickel(II) complex are reported, together with IR, electronic and ESR spectra of the metal complexes. The thiosemicarbazones and their copper(II) and nickel(II) complexes exhibit considerable growth inhibitory activity against Paecilomyces variotii, but show minimal activity against Aspergillus niger.

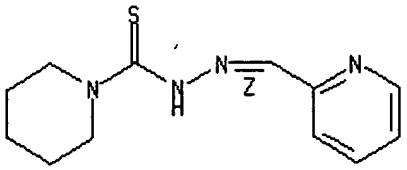
IT **125656-59-9P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and spectra and antifungal activity of copper and nickel formylpyridine thiosemicarbazone chloro and halo complexes)

RN 125656-59-9 HCAPLUS

CN 1-Piperidinecarbothioic acid, (2-pyridinylmethylene)hydrazide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L8 ANSWER 26 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

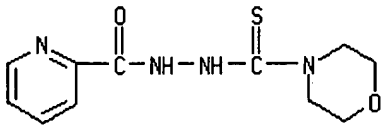
Full Text | Citing References

ACCESSION NUMBER: 1994:508637 HCAPLUS
DOCUMENT NUMBER: 121:108637
TITLE: Synthesis and tuberculostatic activity of the products of reaction of 5-(2-, 3- and 4-pyridyl)-1,3,4-oxadiazole-2-thiones with amines
AUTHOR(S): Pancechowska-Ksepko, Danuta; Foks, Henryk; Janowiec, Mieczyslaw; Zwolska-Kwiek, Zofia
CORPORATE SOURCE: Dep. Org. Chem., Sch. Med., Gdansk, 80416, Pol.
SOURCE: Acta Poloniae Pharmaceutica (**1993**), 50(2-3), 259-67
CODEN: APPHAX; ISSN: 0001-6837
DOCUMENT TYPE: Journal
LANGUAGE: Polish
OTHER SOURCE(S): CASREACT 121:108637
GI

AB 5-Pyridyl-1,3,4-oxadiazole-2-thione heated several h in PhCl with secondary amines yielded I (R and pyridine substitution position given): 4-methylpiperazino, 2 and 4; morpholino, 3 and 4; piperidino, 2, 3 and 4; homopiperidino, 4; 4-phenylpiperazino, 4; N(CH2CH:CH2)2, 4. When heating time was reduced to 0.5-4 h, II were obtained (data as above): morpholino, 2, 3 and 4; piperidino, 2 and 3; homopiperidino, 2, 3 and 4; 4-phenylpiperazino, 2; N(CH2CH:CH2)2, 2 and 4. Similar reactions with primary amines, in the case of amino alcs. preferably in their excess, gave III (data as above): Pr, Bu, HO(CH2)2, HO(CH2)3, and PhCH2, all 2, 3 and 4. In the reaction with PhCH2NH2, 20% of II (PhCH2NH, 4) was isolated as a byproduct. In in vitro microbiol. tests, 2-pyridyl-substituted II (R = morpholino, homopiperidino, and 4-phenylpiperazino) revealed an interesting tuberculostatic activity against several resistant strains.

IT **156539-57-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn., cyclization, and tuberculostatic activity of)

RN 156539-57-0 HCAPLUS
CN 2-Pyridinecarboxylic acid, 2-(4-morpholinylthioxomethyl)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 27 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

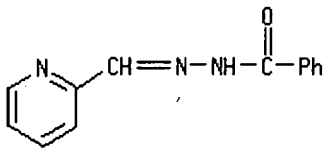
Full Text | Citing References

ACCESSION NUMBER: 1994:314578 HCAPLUS
DOCUMENT NUMBER: 120:314578
TITLE: Comparison of hydrazone derivatives for reversed phase high performance liquid chromatography
AUTHOR(S): Uehra, Nobuo; Hirota, Masayo; Shijo, Yoshio
CORPORATE SOURCE: Fac. Eng., Utsunomiya Univ., Utsunomiya, 321, Japan
SOURCE: Bunseki Kagaku (**1994**), 43(3), 195-201
CODEN: BNSKAK; ISSN: 0525-1931
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB Several hydrazones having similar structures and different donating atoms were synthesized and used as precolumn chelating agents of metal chelates for HPLC. The relationship between the HPLC selectivities for metal chelates and the donating atoms of hydrazones was also evaluated. The hydrazones were synthesized from corresponding hydrazones and aldehydes by refluxing in ethanol. Hydrazone chelates was insol. in water. The chelates were prepd. with methanol-water mixt. or dimethylformamide-water mixt. Most of the hydrazone chelates had absorption maxima near 400 nm. The eluents were methanol-water mixts., which contained tetrabutylammonium bromide as necessary. The HPLC selectivities of hydrazones for metal ions were higher than the selectivities of complexation. The tridentate hydrazones gave more chelate peaks than the bidentate hydrazones did. The hydrazones made from 4-phenyl-3-thiosemicarbazide gave more peaks than the hydrazone made from benzoylhydrazine.

IT **1215-55-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, as precolumn deriv. reagent for metal sepn. by HPLC)

RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 28 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1994:129361 HCAPLUS
DOCUMENT NUMBER: 120:129361
TITLE: Antifungal and antitumor activity of heterocyclic thiosemicarbazones and their metal complexes: Current status
AUTHOR(S): Liberta, Anthony E.; West, Douglas X.
CORPORATE SOURCE: Dep. Biol. Sci. Chem., Illinois State Univ., Normal, IL, USA
SOURCE: BioMetals (**1992**), 5(2), 121-6
CODEN: BOMEEH; ISSN: 0966-0844
DOCUMENT TYPE: Journal
LANGUAGE: English

AB More than 75 substituted thiosemicarbazones and a no. of metal complexes of each were assayed for their antifungal activity. Their activity is affected by the substituted groups attached at both 1N and 4N of the thiosemicarbazone moiety. The greatest activity occurs for 2-substituted pyridine thiosemicarbazones with differences obsd. for 2-formylpyridine,

2-acetylpyridine and 2-benzoylpyridine derivs. and their metal complexes. Further, there are activity differences for 4N-alkyl-, 4N-aryl-, 4N-dialkyl- and 3-azacyclothiosemicarbazones and their metal complexes as well as changes in the substituent size among each of these subgroups. Cu(II) complexes are often more active than the uncomplexed thiosemicarbazones, with the latter showing similar activity to Ni(II) complexes in many instances. The redn. potential of the thiosemicarbazone ligand in a Cu(II) complex, the strength of the ligand field and various spectral properties can be correlated to the inhibitory activity. Various metal complexes that had antifungal activity were screened for in vitro antitumor activity and were active.

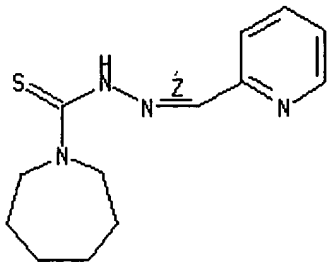
IT **152944-77-9**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(antifungal activity of, structure in relation to)

RN 152944-77-9 HCAPLUS

CN 1H-Azepine-1-carbothioic acid, hexahydro-, (2-pyridinylmethylene)hydrazide, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



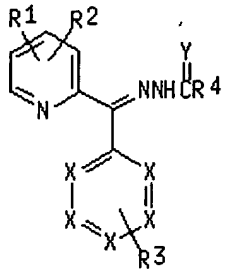
L8 ANSWER 29 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1994:106782 HCAPLUS
DOCUMENT NUMBER: 120:106782
TITLE: Preparation of pyridyl acylhydrazones as microbicides
INVENTOR(S): Heuer, Lutz; Schwamborn, Michael; Erdelen, Christoph; Dehne, Heinz Wilhelm; Berg, Dieter; Endermann, Rainer; Metzger, Karl Georg; Bremm, Klaus Dieter; Ludwig, Georg Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 27 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4207400	A1	19930916	DE 1992-4207400	19920309 <--

PRIORITY APPLN. INFO.: DE 1992-4207400 19920309
OTHER SOURCE(S): MARPAT 120:106782
GI



I

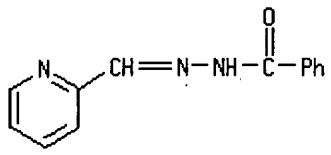
AB Title compds. [I; R1-R3 = H, halo, alkyl, haloalkyl, alkoxy, alkoxyalkyl, alkylthio, cycloalkyl, (substituted) Ph; R1R2 = atoms to complete an unsatd. 6-membered ring; R4 = N[(CH2)nR5][(CH2)nR6], S(CH2)nR5, O(CH2)nR5; R5, R6 = H, (substituted) (O, S-, CO-, SO-, SO2-, or imino-interrupted) alkyl, alkenyl, haloalkyl, cycloalkyl, cycloalkenyl, aryl, heteroaryl, etc.; R5R6 = atoms to form a (substituted) (O-, S-, CO-, SO-, SO2-, or imino-substituted) 3-18 membered ring; X = C, N; Y = S, NH; n = 0-10], and salts and complexes thereof, were prepd. Thus, 2-benzoylpyridine and 4-phenyl-3-thiosemicarbazide were heated in EtOH to give I (R1-R3 = H, R4 = NHPh, X = C, Y = S). Numerous I were active against Alternaria tenuis, Aspergillus niger, Aureobasidium pullulans, etc., at <200 mg/L. Several I were said to show superior activity against Phaedon cochleariae, Plutella maculipennis, and Heliothis virescens on crop plants.

IT 1215-55-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for microbicide)

RN 1215-55-0 HCAPLUS

CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



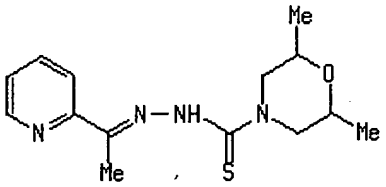
L8 ANSWER 30 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1994:54454 HCAPLUS
DOCUMENT NUMBER: 120:54454
TITLE: Microbicidal hydrazones for technical material
INVENTOR(S): Schwamborn, Michael; Heuer, Lutz; Mueller, Nikolas; Heywang, Gerhard; Ludwig, Georg Wilhelm
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4207401	A1	19930916	DE 1992-4207401	19920309 <--

PRIORITY APPLN. INFO.: DE 1992-4207401 19920309
OTHER SOURCE(S): MARPAT 120:54454
GI



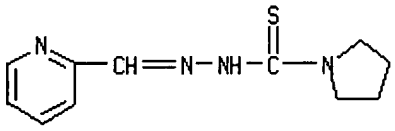
II

AB Hydrazones R1R2C:NNHR3 [I; R1 = aryl, pyridyl, furyl, pyrrolyl, thienyl, ferrocenyl, cycloalkyl, alkyl; R2 = H, alkyl; R3 = C(X)R4; X = O, NH, S; R4 = SR5, NHR5, NR5R6, OR5, NHNHR5; R5, R6 = H, alkyl, cycloalkyl, aryl, pyridyl, pyrimidinyl, furyl, allyl; or NR5R6 = 5- or 6-membered heterocyclyl with optional addnl. N or O atom(s)], some of which are new, are useful as microbicides for tech. materials. I (over 135 listed, with m.p. data) may be prepd. by known methods, e.g., those described in WO 85 00 955. Claims cover microbicidal agents contg. ≥1 compd. I, protection of tech. materials with I, and use of I against molds, wood-destroying organisms, bacteria, yeast, algae, and slimes. For example, title compd. II had MIC of <200 mg/L against 9 organisms, e.g. Aspergillus niger, Lentinus tigrinus, and Staphylococcus aureus, and MIC of 250 mg/L against Pseudomonas aeruginosa.

IT 16552-99-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. as industrial microbicide)

RN 16552-99-1 HCAPLUS

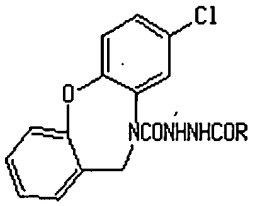
CN 1-Pyrrolidinecarbothioic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 31 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:671122 HCAPLUS
DOCUMENT NUMBER: 119:271122
TITLE: N-Substituted dibenzoxazepines as analgesic PGE2 antagonists
AUTHOR(S): Hallinan, E. Ann.; Hagen, Timothy J.; Husa, Robert K.; Tsymbalov, Sofya; Rao, Shashidhar N.; vanHoeck, Jean Pierre; Rafferty, Michael F.; Stapelfeld, Awilda; Savage, Michael A.; Reichman, Melvin
CORPORATE SOURCE: Dep. Chem. Res., Searle, Skokie, IL, 60077, USA
SOURCE: Journal of Medicinal Chemistry (**1993**), 36(22), 3293-9
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



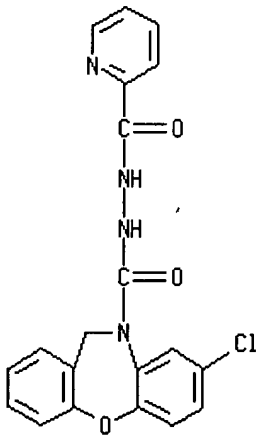
I

AB Analogs of 8-chlorodibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 2-acetylhydrazide (I, R = Me) (SC-19220) in which the acetyl moiety has been replaced with pyridylpropionyl groups and their homologs, were prepd., as illustrated by I [R = 2-(4-pyridyl)ethyl (SC-51089), 1,1-difluoro-2-hydroxy-2-(2-pyridyl)ethyl (SC-51234A)]. These and other members of this series were effective analgesics and prostaglandin E2 (PGE2) antagonists of the EP1 receptor subtype. Structure activity relationships within this series are discussed.

IT **146032-92-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn., analgesic activity, and prostaglandin E2 antagonistic activity of)

RN 146032-92-0 HCAPLUS

CN Dibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 8-chloro-, 2-(2-pyridinylcarbonyl)hydrazide, monohydrochloride (9CI) (CA INDEX NAME)



HCl

L8 ANSWER 32 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER:	1993:102002 HCAPLUS
DOCUMENT NUMBER:	118:102002
TITLE:	Preparation of dibenz[b,f][1,4]oxazepines and related compounds as analgesics and prostaglandin antagonists
INVENTOR(S):	Hallinan, E. Ann; Hagen, Timothy Joseph; Husa, Robert Knol; Tsymbalov, Sofya; Lee, Albert C.; Van Hoeck, Jean Pierre
PATENT ASSIGNEE(S):	Searle, G. D., and Co., USA
SOURCE:	Eur. Pat. Appl., 61 pp. CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	English

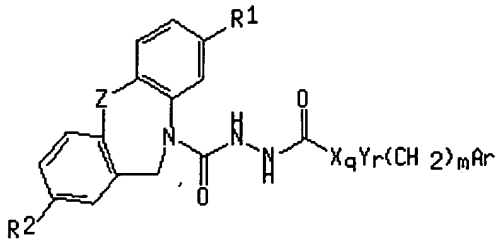
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
EP 512400	A1	19921111	EP 1992-107328	19920429	<--
EP 512400	B1	19981202			
R: PT					
CA 2108903	AA	19921104	CA 1992-2108903	19920416	<--
WO 9219617	A2	19921112	WO 1992-US3028	19920416	<--
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US					
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG					
AU 9222462	A1	19921221	AU 1992-22462	19920416	<--
EP 583421	A1	19940223	EP 1992-914560	19920416	<--
EP 583421	B1	19990616			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
JP 06507408	T2	19940825	JP 1992-511838	19920416	<--
JP 3222891	B2	20011029			
EP 694545	A2	19960131	EP 1995-116871	19920416	<--
EP 694545	A3	19960327			
EP 694545	B1	20000726			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE					
AT 181329	E	19990715	AT 1992-914560	19920416	<--
ES 2133324	T3	19990916	ES 1992-914560	19920416	<--
AT 194987	E	20000815	AT 1995-116871	19920416	
ES 2149305	T3	20001101	ES 1995-116871	19920416	
EP 694546	A2	19960131	EP 1995-116872	19920429	<--
EP 694546	A3	19960327			
EP 694546	B1	20010606			
R: PT					
EP 911331	A2	19990428	EP 1999-101029	19920429	<--
EP 911331	A3	20000119			
R: PT					
US 5378840	A	19950103	US 1993-108551	19930824	<--
US 5464830	A	19951107	US 1994-295302	19940824	<--
US 5576315	A	19961119	US 1995-509846	19950801	<--

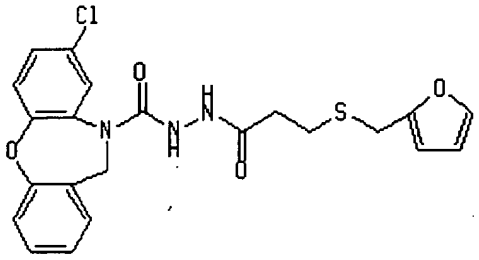
PRIORITY APPLN. INFO.:

US 1991-695654	A	19910503
WO 1992-US3028	A	19920416
EP 1992-914560	A3	19920416
EP 1992-107328	A3	19920429
EP 1995-116872	A3	19920429
US 1993-108551	A1	19930824
US 1994-295302	A3	19940824

OTHER SOURCE(S): MARPAT 118:102002
GI



I



II

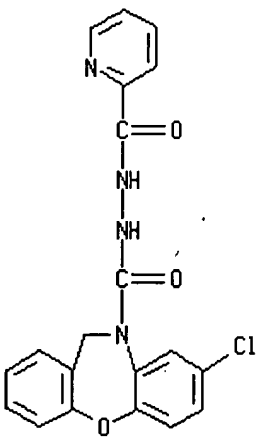
AB Title compds. [I; R1 = H, halo, CF3; R2 = H, halo, OH, OMe; Z = O, S, SO, SO2; X = CH:CH, CF2, CHF, (CH2)n, (CH2)pCH:CH; Y = CH(OH), NR3, S, SO, SO2, O; q, r = 0, 1; m = 0-6; n, p = 1-6; R3 = H, Me3CO2C; Ar = (substituted) aryl] were prepd. Thus, 3-[(2-furylmethyl)thio]propanoic acid hydrazide (prepn given) and 8-chlorodibenz[b,f][1,4]oxazepine-10(11H)-carbonyl chloride (prepn. given) were condensed in PhMe contg. Et3N at reflux to give 100% title compd. II. II showed ED50 = 0.9 mg/kg in the phenylbenzoquinone-induced writhing test in mice, and antagonized prostaglandin E2 in guinea pig ileum with pA2 = 8.5.

IT **146032-92-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as analgesic and prostaglandin antagonist)

RN 146032-92-0 HCAPLUS

CN Dibenz[b,f][1,4]oxazepine-10(11H)-carboxylic acid, 8-chloro-, 2-(2-pyridinylcarbonyl)hydrazide, monohydrochloride (9CI) (CA INDEX NAME)



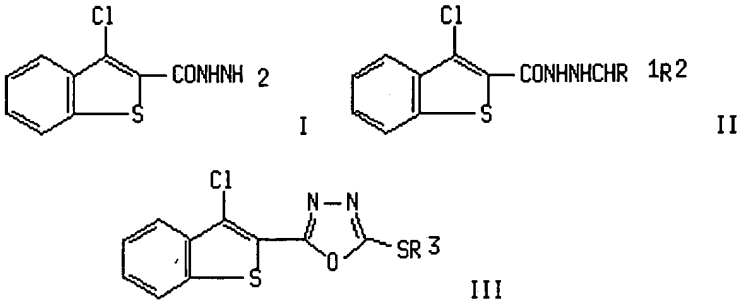
HCl

L8 ANSWER 33 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

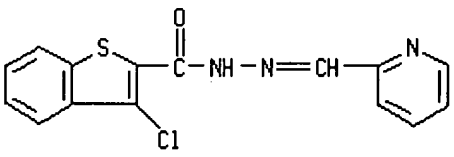
ACCESSION NUMBER: 1993:6926 HCAPLUS

DOCUMENT NUMBER: 118:6926
TITLE: Novel benzo[b]thienylhydrazine and 1,3,4-oxadiazole derivatives as potential antidepressant agents
AUTHOR(S): AboulWafa, Omaima M.; El-Metwalli, Mona A. E.
CORPORATE SOURCE: Fac. Pharm., Univ. Alexandria, Egypt
SOURCE: Archiv der Pharmazie (Weinheim, Germany) (**1992**), 325(9), 603-8
CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Three novel series of benzo[b]thiophene derivs. bearing various hydrazone, hydrazine and 1,3,4-oxadiazole moieties were synthesized as potential antidepressant agents. Thus, condensation of R1R2CO [R1 = H, R2 = 2-HOC6H4, 4-HOC6H4, 2-furyl, 2-thienyl, etc.; R1 = Me, R2 = Me, Ph, 4-MeC6H4, 4-BrC6H4, etc.; R1R2 = (CH2)5] with chlorobenzothiophene I and redn. of the resultant arylidenes/alkylidenes gave aralkyl(benzothienylcarbonyl)hydrazines II. Benzothienyloxadiazoles III (R3 = Me, Et, CH2CH:CH2, CH2Ph) were also prepd. II and III were evaluated for their in vitro inhibitory effect on monoamine oxidase enzyme (MAO) type A. Several compds. inhibited MAO stronger than pargyline hydrochloride. Max. inhibitions of 83% and 90% were obsd. with II (R1 = H, R2 = Ph) and II (R1 = Me, R2 = 4-ClC6H4), resp.

IT **144605-06-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and monoamine oxidase inhibitory activity of)
RN 144605-06-1 HCAPLUS
CN Benzo[b]thiophene-2-carboxylic acid, 3-chloro-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 34 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN
Full Text | Citing References

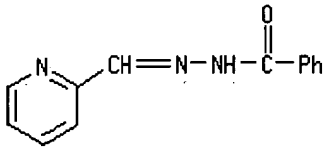
ACCESSION NUMBER: 1992:407226 HCAPLUS
DOCUMENT NUMBER: 117:7226
TITLE: Biologically active thiazolidinone. Part III. Synthesis and fungal toxicities of substituted thiazolidinone, thioether and N-benzoyl heterocyclic compounds from benzoic acid hydrazones

AUTHOR(S): Abdel-Rahman, R. M.; El-Gendy, Z.; Fawzy, M. M.; Mahmoud, M. B.
CORPORATE SOURCE: Fac. Educ., Ain Shams Univ., Cairo, Egypt
SOURCE: Journal of the Indian Chemical Society (**1991**), 68(11), 628-31
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The title compds were prepd. by reactions of benzoylhydrazones with HSCH2CO2H, 4-ClC6H4SH, PhCOCH2COMe, and 2-PhCOC6H4CO2H. Reactions of dibenzoylhydrazones with N2H4·H2O and guanidine hydrochloride were also described. Products such as I and II showed antifungal activity.

IT **1215-55-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and reaction with thiols)

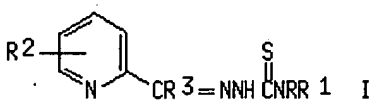
RN 1215-55-0 HCAPLUS
CN Benzoic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 35 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1991:96699 HCAPLUS
DOCUMENT NUMBER: 114:96699
TITLE: Chitin biosynthesis inhibition and fungicidal effect of thiosemicarbazones of 2-formyl- and 2-acetylpyridine, their hydrogenated derivatives and copper complexes thereof
AUTHOR(S): Wengel, Anita; Jacobsen, Niels; Kolind-Andersen, Hans; Bjerregaard, Poul
CORPORATE SOURCE: Res. Dep., A/S Cheminova, Lemvig, DK-7620, Den.
SOURCE: Pesticide Science (**1990**), 30(2), 223-33
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:96699
GI



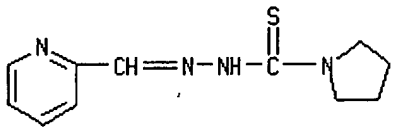
AB Several thiosemicarbazones 2-formyl- and 2-acetylpyridine (I, R and R1 = alkyl or NRR1 = heterocyclic, R2 = H, 5-Bu, or 4-Cl, R3 = H or Me) were found to be broad-spectrum protectant fungicides with activity particularly against oomycetes. The effect of some of the compds. on chitin biosynthesis was studied, but the low inhibitory activity obsd. combined with the fungicidal activity spectrum, particularly the high

activity against oomycetes, excludes this as their main mode of action. Attempts of enhancing the systemic properties of the compds. by chem. modifications failed.

IT **16552-99-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and agrochem. fungicidal activity of)

RN 16552-99-1 HCAPLUS

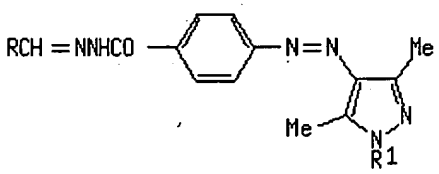
CN 1-Pyrrolidinecarbothioic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



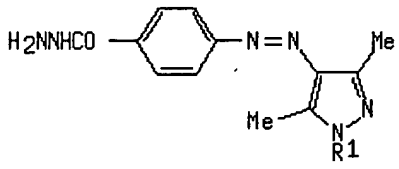
L8 ANSWER 36 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1990:178771 HCAPLUS
DOCUMENT NUMBER: 112:178771
TITLE: Studies on azopyrazole derivatives. Part 8: synthesis and characterization of new 1-(1-substituted-3,4-dimethylpyrazolylazo)-N2-(substituted benzylidene)benzohydrazides
AUTHOR(S): Ergenc, N.; Rollas, S.; Capan, G.; Dogan, N.; Ozger, Y.
CORPORATE SOURCE: Fac. Pharm., Istanbul Univ., Istanbul, Turk.
SOURCE: Pharmazie (**1989**), 44(8), 573-4
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:178771
GI



I



II

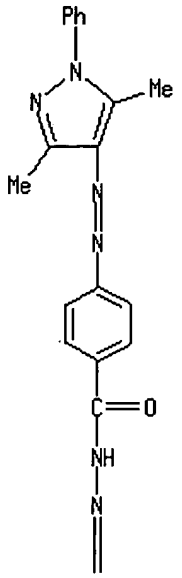
AB Fifteen title compds. I (R = substituted Ph, p-Me2NC6H4CH:CH, 2-pyridyl; R1 = CH2CH2OH, Ph, p-C6H4SO3Na) were prepd. by condensation of RCHO with (hydrazinocarbonylphenylazo)pyrazoles II. I are potential herbicides, fungicides and insecticides (no data).

IT **126308-05-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

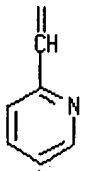
RN 126308-05-2 HCAPLUS

CN Benzoic acid, 4-[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)azo]-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L8 ANSWER 37 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

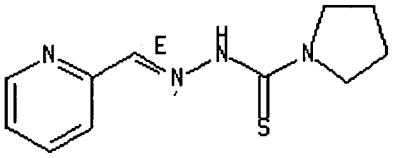
ACCESSION NUMBER: 1990:117985 HCAPLUS
DOCUMENT NUMBER: 112:117985
TITLE: Pyridazines. 47. The configuration of novel thiosemicarbazone derivatives of pyridazinecarboxaldehydes and alkyl pyridazinyl ketones
AUTHOR(S): Easmon, Johnny; Heinisch, Gottfried; Holzer, Wolfgang
CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Vienna, Vienna, A-1090, Austria
SOURCE: Heterocycles (**1989**), 29(7), 1399-408
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Structure and configuration of thiosemicarbazone derivs., contg. a 3-pyridazinyl, 4-pyridazinyl, or 2-pyridyl moiety were detd. by means of 1H and 13C NMR.

IT **125656-56-6**
RL: PRP (Properties)
(configuration and carbon-13 and proton NMR of)

RN 125656-56-6 HCAPLUS
CN 1-Pyrrolidinecarbothioic acid, (2-pyridinylmethylene)hydrazide, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L8 ANSWER 38 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

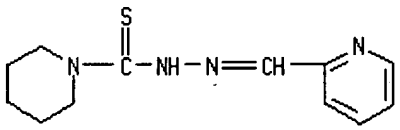
Full Text | Citing References

ACCESSION NUMBER: 1990:30243 HCAPLUS
DOCUMENT NUMBER: 112:30243
TITLE: Synthesis and antiviral activity of thiosemicarbazone derivatives of pyridazinecarbaldehydes and alkyl pyridazinyl ketones
AUTHOR(S): Easmon, J.; Heinisch, G.; Holzer, W.; Rosenwirth, B.
CORPORATE SOURCE: Inst. Pharm. Chem., Univ. Vienna, Vienna, A-1090, Austria
SOURCE: Arzneimittel-Forschung (**1989**), 39(10), 1196-201
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:30243

AB A series of thiosemicarbazones were prepd. and their cytotoxicity to Vero cells and inhibition of herpes simplex 1 virus infection were examd. Structure-activity relationships are discussed.

IT **16552-95-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cytotoxicity and virucidal activity of, structure in relation to)

RN 16552-95-7 HCAPLUS
CN 1-Piperidinecarbothioic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 39 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1990:17750 HCAPLUS
DOCUMENT NUMBER: 112:17750
TITLE: Preparation of benzothiadiazole derivatives as agrochemical microbicides
INVENTOR(S): Schurter, Rolf; Kunz, Walter; Nyfeler, Robert
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Braz. Pedido PI, 182 pp.
CODEN: BPXXDX
DOCUMENT TYPE: Patent
LANGUAGE: Portuguese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
BR 8804264	A	19890321	BR 1988-4264	19880822	<--
EP 313512	A2	19890426	EP 1988-810561	19880817	<--
EP 313512	A3	19900404			
EP 313512	B1	19921125			
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE					
AT 82668	E	19921215	AT 1988-810561	19880817	<--
ES 2052772	T3	19940716	ES 1988-810561	19880817	<--
US 4931581	A	19900605	US 1988-234241	19880818	<--
DK 8804676	A	19890222	DK 1988-4676	19880819	<--
ZA 8806157	A	19890426	ZA 1988-6157	19880819	<--
HU 47797	A2	19890428	HU 1988-4408	19880819	<--
HU 210904	B	19950928			
AU 8821156	A1	19890518	AU 1988-21156	19880819	<--
AU 620558	B2	19920220			
DD 282609	A5	19900919	DD 1988-319083	19880819	<--
IL 87503	A1	19941229	IL 1988-87503	19880819	<--
CA 1339571	A1	19971209	CA 1988-575243	19880819	<--
CZ 285601	B6	19990915	CZ 1988-5703	19880819	<--
SK 281188	B6	20010118	SK 1988-5703	19880819	
JP 01090176	A2	19890406	JP 1988-207990	19880822	<--
JP 2964144	B2	19991018			
CN 1032790	A	19890510	CN 1988-106178	19880822	<--
CN 1025614	B	19940810			
KR 9701484	B1	19970206	KR 1988-10672	19880822	<--
US 5190928	A	19930302	US 1991-683582	19910410	<--
CN 1068471	A	19930203	CN 1992-108687	19920720	<--
CN 1033354	B	19961127			
CN 1068932	A	19930217	CN 1992-108697	19920720	<--
CN 1033299	B	19961120			
US 5523311	A	19960604	US 1995-405488	19950314	<--

PRIORITY APPLN. INFO.:		
CH 1987-3229	A	19870821
EP 1988-810561	A	19880817
US 1988-234241	A3	19880818
CN 1988-106178	A	19880822
US 1990-494190	B1	19900315
US 1991-683582	A3	19910410
US 1992-979571	B1	19921120

OTHER SOURCE(S): MARPAT 112:17750

GI For diagram(s), see printed CA Issue.

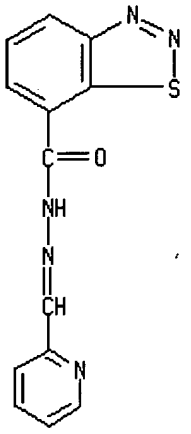
AB The benzothiadiazoles I (X = H, halo, OH, Me, MeO, CO2H, CO2Me; Y = H, halo, NO2SO3H, OH, NH2, etc.; Z = CN, CO2H, CO2Me, CONHNH2, CO2CH2Ph, CONH2, etc.) are prepd. as microbicides and plant-immunizing agents against pathogenic microorganisms and viruses. Me 3,5-diamino-2-isopropylthiobenzoate (prepn. given) in conc. HCl was treated with NaNO2, at -5°, followed by treatment with hypophosphorous acid to give I (X = Y = H; Z = CO2Me) (II). When applied to soil, 0.0002% II immunized tobacco against artificial infection by Pseudomonas tabaci.

IT **124371-30-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prépn. of, as plant microbicide, curative and preventive)

RN 124371-30-8 HCAPLUS

CN 1,2,3-Benzothiadiazole-7-carboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 40 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1989:644199 HCAPLUS
DOCUMENT NUMBER: 111:244199
TITLE: Electrophotographic photoreceptor containing azoalkene or disazoalkene charge-generating pigment
INVENTOR(S): Hashida, Yoji; Matsumoto, Masakazu; Ishikawa, Shozo
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01018151	A2	19890120	JP 1987-175198	19870713 <--
JP 07120055	B4	19951220		

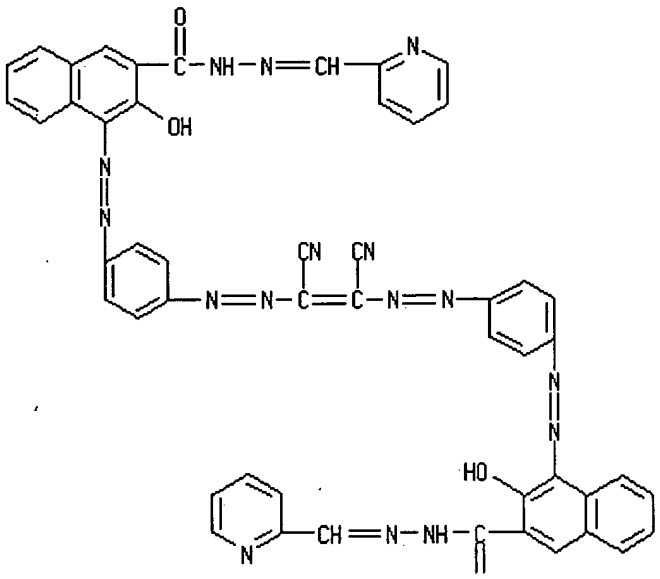
PRIORITY APPLN. INFO.: JP 1987-175198 19870713

AB The title photoreceptor contains in its photosensitive layer a compd. having in its structure a bonding group -N:NCR1:CR2- or -N:NCR3:CR4N:N- (R1-R4 = H, halo, CN, halomethyl, acyl, akyloxycarbonyl, aryloxycarbonyl, alkyl, aralkyl, aryl).

IT **123442-81-9**
RL: USES (Uses)
(electrophotog. charge-generating pigment)

RN 123442-81-9 HCAPLUS
CN 2-Naphthalenecarboxylic acid, 4,4'-[(1,2-dicyano-1,2-ethenediyl)bis(azo-4,1-phenyleneazo)]bis[3-hydroxy-, bis[(2-pyridinylmethylene)hydrazide] (9CI) (CA INDEX NAME)

PAGE 1-A



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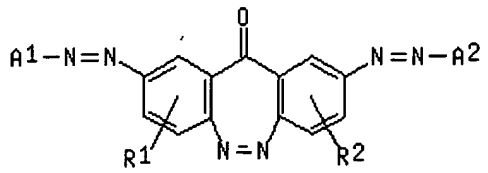
L8 ANSWER 41 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1989:240165 HCAPLUS
DOCUMENT NUMBER: 110:240165
TITLE: Electrophotographic photoreceptors containing charge-generating disazo pigments
INVENTOR(S): Miyazaki, Hajime; Takai, Hideyuki; Kashizaki, Yoshiro; Shiino, Yasuko; Suzuki, Koichi
PATENT ASSIGNEE(S): Canon K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63282742	A2	19881118	JP 1987-116769	19870515 <--
JP 05016026	B4	19930303		

PRIORITY APPLN. INFO.: JP 1987-116769 19870515
OTHER SOURCE(S): MARPAT 110:240165
GI



I

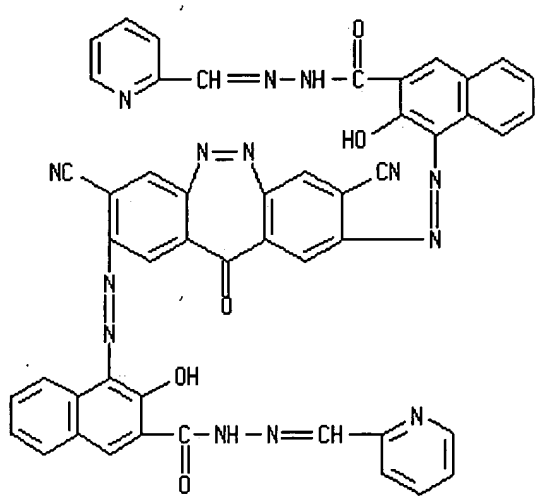
AB In the title photoreceptor having on an elec. conductive support a photoconductive layer, the photoconductive layer contains a disazo pigment I (A1, A2 = coupler residue having phenolic OH; R1, R2 = H, alkyl, alkoxy, halo, CN).

IT **119956-42-2**

RL: USES (Uses)
(electrophotog. charge-generating pigment, for improved sensitivity)

RN 119956-42-2 HCAPLUS

CN 2-Naphthalenecarboxylic acid, 4,4'-[(3,8-dicyano-11-oxo-11H-dibenzo[c,f][1,2]diazepine-2,9-diyl)bis(azo)]bis[3-hydroxy-, bis[(2-pyridinylmethylene)hydrazide] (9CI) (CA INDEX NAME)



L8 ANSWER 42 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

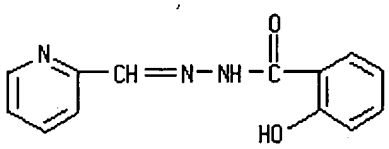
Full Text | Citing References

ACCESSION NUMBER: 1989:107066 HCAPLUS
DOCUMENT NUMBER: 110:107066
TITLE: Synthesis and structural studies of chlorobenzoyl and salicyloylhydrazone complexes of tridentate hydrazones
AUTHOR(S): Duggal, H. K.; Agarwala, B. V.
CORPORATE SOURCE: Chem. Lab., Univ. Allahabad, Allahabad, India
SOURCE: Synthesis and Reactivity in Inorganic and Metal-Organic Chemistry (**1988**), 18(9), 871-9
CODEN: SRIMCN; ISSN: 0094-5714
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Octahedral ML2 (M = Co, Cu) and M1L12 (M1 = Mn, Co, Ni, Cu) were prepd. from 2-pyridinecarboxaldehyde-p-chlorobenzoylhydrazone (HL) and 2-pyridinecarboxaldehyde-salicyloylhydrazone (HL1). The ligands were obtained by treating pyridine-2-carboxaldehyde with the appropriate hydrazide. The complexes were characterized by elemental anal., magnetic moment, and IR spectral methods. The ligands coordinate via oxyimino O, methyleneimino N, and pyridyl N atoms.

IT **18176-38-0P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 18176-38-0 HCAPLUS
CN Benzoic acid, 2-hydroxy-, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



L8 ANSWER 43 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

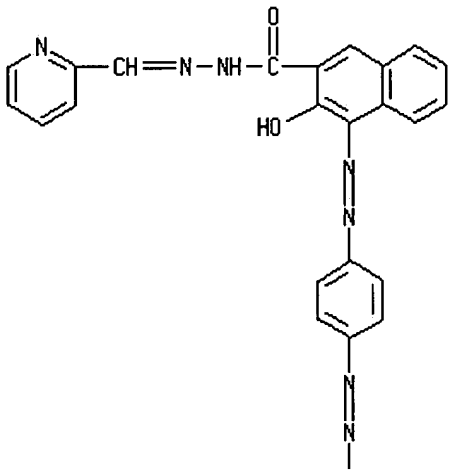
Full Text | Citing References

ACCESSION NUMBER: 1988:414696 HCAPLUS
DOCUMENT NUMBER: 109:14696
TITLE: Azoamine derivative charge-generating layer for electrophotographic photoreceptor
INVENTOR(S): Kawahara, Tatsuro
PATENT ASSIGNEE(S): Dainippon Ink and Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62258461	A2	19871110	JP 1986-99399	19860501 <--

PRIORITY APPLN. INFO.: JP 1986-99399 19860501
GI For diagram(s), see printed CA Issue.
AB An electrophotog. photoreceptor suited for use in laser printers is claimed which is provided with a charge-generating layer contg. an azoamine deriv. I [X = II, III; Q = N, NHN=C; R, R1, R2 = H, (un)substituted hydrocarbyl, heterocyclic group; R1R2 may jointly form a ring; Z = (un)substituted hydrocarbon (heterocyclic) ring; Y = divalent org. group contg. a benzene ring and a heterocyclic ring fused to the benzene ring].
IT **114936-68-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(charge-generating layer contg., for electrophotog. photoreceptor)
RN 114936-68-4 HCAPLUS
CN 2-Naphthalenecarboxylic acid, 4,4,4''-[nitrilotris(4,1-phenyleneazo-4,1-phenylazo)]tris[3-hydroxy-, tris[(2-pyridinylmethylene)hydrazide] (9CI) (CA INDEX NAME)

PAGE 1-A



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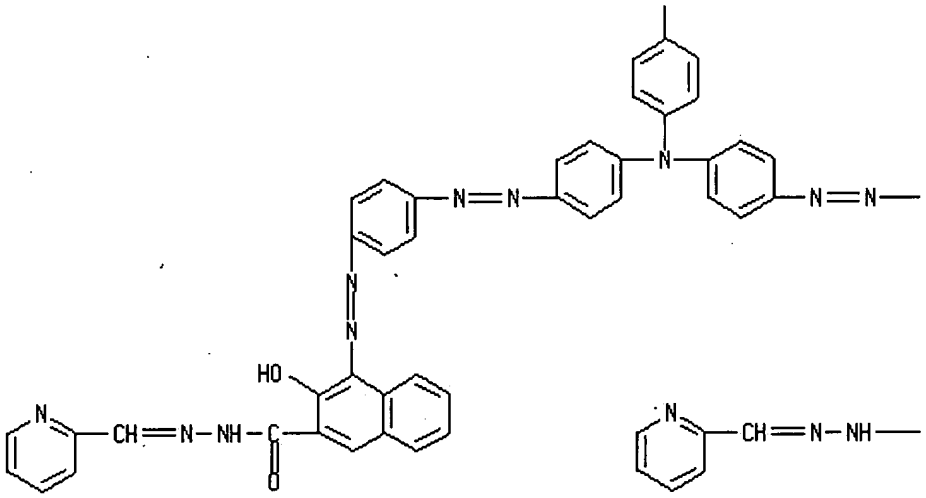
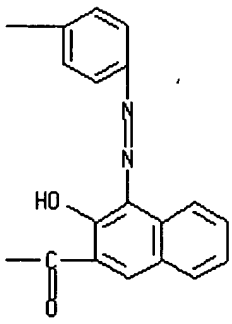


PAGE 2-B



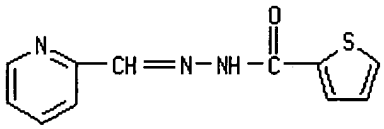
L8 ANSWER 44 OF 124 HCAPLUS COPYRIGHT 2003 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1988:197186 HCAPLUS
DOCUMENT NUMBER: 108:197186
TITLE: 2-Pyridylaldehyde 2-thenoylhydrazone: synthesis, identification and reactivity. Study of solid complexes with lead(II), copper(II), silver(I), nickel(II) and cobalt(II)
AUTHOR(S): Gimenez Plaza, J.; De Gracia Villodres, E.; Marcos, J. I.
CORPORATE SOURCE: Dep. Quim. Anal., Fac. Cienc., Malaga, Spain
SOURCE: Anales de Quimica, Serie B: Quimica Inorganica y Quimica Analitica (**1987**), 83(3), 288-92
CODEN: AQSAD3; ISSN: 0211-1349
DOCUMENT TYPE: Journal
LANGUAGE: Spanish

AB 2-Pyridylaldehyde 2-thenoylhydrazone (L), [ML2](NO3)2 (M = Pb, Cu), [Ag2L2](ClO4)2, and M1LCl2 (M1 = Co, Ni) were prepd. and characterized by elemental anal., thermal anal., molar cond., magnetic, and IR spectral methods.

IT **114011-30-2P**, 2-Pyridylaldehyde 2-thenoylhydrazone
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 114011-30-2 HCAPLUS
CN 2-Thiophenecarboxylic acid, (2-pyridinylmethylene)hydrazide (9CI) (CA INDEX NAME)



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L9            0 S L8, IBIB ABS FHITSTR, 1-124

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=> s l3
L10         20 L3

=> d l10, all, 1-20

L10  ANSWER 1 OF 20  CAOLD  COPYRIGHT 2003 ACS on STN
Full Text
AN   CA64:5052d  CAOLD
TI   N,N'-dipyridinecarboxyhydrazine
AU   Kato, Tetsuzo; Yamanaka, H.; Teshigawara, T.
DT   Patent
     PATENT NO.     KIND          DATE
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L10  ANSWER 2 OF 20  CAOLD  COPYRIGHT 2003 ACS on STN
AN   CA62:13069a  CAOLD
TI   dinitrenes from o-diazides-synthesis of 1,4-dicyano-1,3-butadienes
AU   Hall, J. Herbert
IT    787-84-8     835-90-5     835-91-6     840-76-6     840-78-8     840-79-9
     849-82-1     895-84-1    1008-99-7

L10  ANSWER 3 OF 20  CAOLD  COPYRIGHT 2003 ACS on STN
AN   CA62:10425g  CAOLD
TI   thiazolidine derivs. - (III)
AU   Kretov, A. E.; Bespalyi, A. S.
IT    840-79-9     3163-47-1    3163-49-3    3163-50-6    3163-51-7    3173-81-7
     3173-82-8    3173-83-9    3173-84-0    3173-85-1    3173-86-2    3173-87-3
     3173-88-4    3173-89-5    3173-90-8    3324-11-6    3324-12-7    3324-13-8
     3324-14-9    3324-15-0    3352-46-3    3369-07-1    3428-65-7    3428-66-8
     3521-75-3    3521-77-5    3577-22-8    3953-01-3    4280-73-3    4280-74-4
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L10 ANSWER 4 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA62:10425e CAOLD
TI 2-methylbenzothiazole derivs. - (II)
AU Gmernicka-Haftek, Cecylia; Biniecki, S.
IT **840-79-9** 3163-47-1 3315-04-6 3315-05-7 3315-06-8 3521-75-3
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L10 ANSWER 5 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA62:8065f CAOLD
TI monoamine oxidase inhibitors - (V) hydrazine derivs. of BzOH
AU Bojarska-Dahlig, Halina; Misterek, J.
IT 956-07-0 1215-52-7 1215-53-8 1215-54-9 **1215-55-0** 1219-41-6
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L10 ANSWER 6 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA60:14467c CAOLD
TI hydrazine derivs. of pyridylacetic acids
AU Bojarska-Dahlig, Halina
IT 15017-22-8 **15017-24-0** 19731-03-4 19731-08-9 91803-33-7 91803-34-8
91803-35-9 91803-36-0 91803-37-1 92023-82-0 92023-83-1 92023-84-2
92166-26-2 92193-23-2 92193-24-3 92193-25-4 92193-26-5 92193-27-6
92193-28-7 92193-29-8 92296-25-8 92296-26-9 92296-27-0 92296-28-1
92296-29-2 92375-73-0 92375-74-1 92852-21-6 92852-22-7 93353-07-2
93353-08-3 93944-12-8 97738-74-4 98110-70-4

L10 ANSWER 7 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA57:16471i CAOLD
TI synthesis of α- and β-amino ketone analogs of amino acids as antibacterial agents
AU Cheng, Shu-Sing; Jonsson, S.; Semeniuk, F. T.
IT 794-43-4 840-78-8 **840-79-9** 895-84-1 1032-67-3 1530-73-0
1909-25-7 4329-75-3 4402-22-6 5467-71-0 5467-72-1 5861-96-1
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29620-62-0 43100-26-1 54571-25-4 59282-61-0 59900-28-6 69673-99-0
82585-51-1 88894-29-5 89776-34-1 89937-63-3 90726-46-8 90874-60-5
90922-29-5 90943-28-5 92367-83-4 92498-10-7 92789-59-8 93148-81-3
93724-37-9 93729-32-9 95441-57-9 98341-72-1 98363-47-4 98883-57-9
100233-28-1

L10 ANSWER 8 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA57:15609f CAOLD
TI antibacterial activity and chem. structure of isoniazid derivs.
AU Kakimoto, Shichiro
IT 553-53-7 555-90-8 840-78-8 **840-79-9** 1200-00-6 1452-63-7
1452-77-3 1627-73-2 2196-13-6 2227-79-4 2845-82-1 2929-81-9
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4714-68-5 4714-69-6 5346-38-3 5351-17-7 6957-91-1 13025-99-5
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15017-32-0 19353-92-5 20842-45-9 41764-73-2 60838-24-6 61690-97-9

L10 ANSWER 9 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA57:307b CAOLD
TI nuclear magnetic resonance spectra of pyridine derivs.
AU Bruegel, Werner
IT 91-02-1 93-60-7 101-82-6 372-48-5 452-58-4 492-73-9
553-53-7 620-08-6 624-28-2 626-06-2 626-64-2 636-73-7

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L10 ANSWER 10 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA56:10141h CAOLD
TI synthesis of pyrazinoic acid derivs. - (I) derivs. of pyrazinoic acid, aminopyrazine, pyrazinohydrazide, and pyrazinecarboxaldehyde
AU Kakemi, Kiichiro; Uno, T.; Arita, T.; Nakao, H.; Shimada, I.; Ikegami, Y.; Kitazawa, S.
IT 4923-14-2 54571-24-3 54571-25-4 57229-37-5 87814-40-2 89977-72-0
90766-06-6 90920-35-7 91091-40-6 91093-38-8 91093-39-9 91093-40-2
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94785-70-3 94785-71-4 **94785-72-5** 94984-02-8 95173-77-6 95389-73-4
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L10 ANSWER 11 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA55:21117i CAOLD
TI synthesis of acyl derivs. of hydrazides of pyridine- and furancarboxylic acids
AU Grekov, A. P.; Nesynov, E. P.
IT 27293-28-3 **54571-23-2** 56352-72-8 56352-73-9 56352-74-0 56352-75-1
56352-76-2 56352-77-3 56352-82-0 56352-83-1 56352-84-2

L10 ANSWER 12 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
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AN CA55:16571e CAOLD
TI amides and hydrazones of podophyllic and picropodophyllic acids
AU Rutschmann, Juerg
PA Sandoz Ltd.
DT Patent

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GB 886427		

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L10 ANSWER 13 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA55:8659a CAOLD
TI action of psychotropic drugs on respiration and blood pressure
AU Schuetz, Ernst
TI structure and antibacterial activity of isoniazid analogs
AU Kakimoto, Shichiro; Krueger-Thiemer, E.; Wempe, E.
IT 104-06-3 113-59-7 140-87-4 146-54-3 303-69-5 536-33-4
553-53-7 555-90-8 613-94-5 840-78-8 **840-79-9** 936-02-7
937-39-3 969-99-3 1200-00-6 1452-63-7 1452-77-3 1453-82-3
1904-58-1 2196-13-6 2361-27-5 2845-82-1 3326-71-4 3538-69-0
3608-75-1 4329-75-3 4608-25-7 4621-66-3 5346-38-3 10120-63-5
15017-22-8 23690-11-1 60838-24-6 61690-97-9 65978-86-1 69583-00-2
98488-11-0 98594-24-2 100714-47-4 100867-63-8

L10 ANSWER 14 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA54:7694g CAOLD
TI antitubercular compds. - (XVI) prepn. of some derivs. of 2,1,3-benzothiadiazole
AU Sekikawa, Isao
IT 16405-98-4 22978-62-7 24722-30-3 65858-50-6 71605-72-6 74375-65-8
98550-17-5 99620-31-2 100706-85-2 101676-56-6 101676-57-7 103101-12-8
108950-38-5 110529-74-3 115758-58-2 **117100-44-4** 117883-21-3 117889-22-2

L10 ANSWER 15 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA54:3411i CAOLD
TI picoline - (I) derivs. of pyridine-2-aldehyde and pyridine-2-carboxylic acid
AU Profft, Elmar; Schneider, F.; Beyer, H.
IT 603-41-8 2506-30-1 3939-03-5 5325-66-6 5337-48-4 6337-41-3
6839-89-0 6954-28-5 14255-55-1 20842-77-7 36763-33-4 41855-82-7
62294-99-9 68160-61-2 71172-77-5 100252-07-1 100377-21-7 100956-06-7
101092-76-6 101259-13-6 102439-95-2 102452-27-7 102665-59-8 103097-54-7
103161-49-5 103162-45-4 104338-34-3 104338-80-9 105516-38-9 109452-64-4
109507-40-6 110150-49-7 **111500-12-0** 114165-98-9

L10 ANSWER 16 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
Full Text
AN CA54:412e CAOLD
TI isothiourea compds.
AU Urbschat, Ewald
PA Farbenfabriken Bayer Akt.-Ges.
DT Patent

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IT 3694-47-1 3694-48-2 **18176-38-0** 101935-21-1

L10 ANSWER 17 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
Full Text
AN CA53:22023g CAOLD
TI N,N'-bis(pyridinecarbonyl)hydrazines
AU Miksch, Johannes
PA Chemische Fabrik Joh. A. Benckiser G.m.b.H.
DT Patent

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IT 840-78-8 **840-79-9** 4329-75-3

L10 ANSWER 18 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA52:4634c CAOLD
TI N-oxides and related compds. - (VI) derivs. of 2-aminopyridine 1-oxide
AU Katritzky, A. R.
IT **840-79-9** 2845-82-1 4936-27-0 5678-33-1 23589-33-5 33191-04-7
41322-67-2 57097-28-6 57097-32-2 59027-71-3 65246-03-9 84043-86-7
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AN CA51:3594e CAOLD
TI prepn. of α-amino aldehydes-mechanism of the reaction
AU Kirrmann, Albert; Riehl, J. J.
IT 4638-79-3 7114-36-5 15017-26-2 **15017-27-3** 20842-45-9 21087-52-5
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L10 ANSWER 20 OF 20 CAOLD COPYRIGHT 2003 ACS on STN
AN CA51:3594c CAOLD
TI antitubercular compds. - (X) condensation products of aldehydes and acid hydrazides of the pyridine group
AU Kakimoto, Shichiro; Yamamoto, K.
IT 13025-99-5 15017-22-8 15017-23-9 **15017-24-0** 15017-26-2 **15017-27-3**
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.40	744.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-61.19

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